

APPENDIX C

FACILITY GUIDELINE INDEX

(FACILITY "LOOK-UP" TABLE)

APPENDIX C - I

RESPONSIBILITIES OF ALL FACILITIES

FACILITY GUIDELINE INDEX

APPENDIX C-I
RESPONSIBILITIES OF ALL FACILITIES

NOTHING IN THIS APPENDIX SHALL BE CONSTRUED AS REQUIRING THAT SOURCE TESTING BE CONDUCTED FOR SUBSTANCES SET FORTH IN THIS APPENDIX. FURTHER, IN CASES WHERE A SUBSTANCE SET FORTH HEREIN IS NOT PRESENT AT A PARTICULAR FACILITY, THE FACILITY OPERATOR SHALL NOT ATTEMPT TO QUANTIFY THE EMISSIONS OF SUCH SUBSTANCE, BUT SHALL PROVIDE ADEQUATE DOCUMENTATION TO DEMONSTRATE TO THE DISTRICT THAT THE POSSIBLE PRESENCE OF THE SUBSTANCE AT THE FACILITY HAS BEEN ADDRESSED AND THAT THERE ARE NO EMISSIONS OF THE SUBSTANCE FOR SPECIFIED REASONS.

Notes For Appendix C-I

- (1) The following substance abbreviations are used throughout the index:

BaP	= Benzo[a]Pyrene
CFC-113	= Chlorinated fluorocarbon
EDB	= Ethylene dibromide
EDC	= Ethylene dichloride
ETO	= Ethylene oxide
Perc	= Perchloroethylene, Tetrachloroethylene
PCBs	= Polychlorinated biphenyls
PAHs	= Polycyclic aromatic hydrocarbons
POM	= Polycyclic organic matter (other than PAHs)
TCA	= 1,1,1-Trichloroethane, Methyl chloroform
TCE	= Trichloroethylene

- (2) PAHs are composed of the following substances:

Acenaphthene	Dibenzo[a,e]pyrene
Acenaphthylene	Dibenzo[a,h]pyrene
Anthracene	Dibenzo[a,i]pyrene
Benz[a]anthracene	Dibenzo[a,l]pyrene
Benzo[b]fluoranthene	Fluoranthene
Benzo[j]fluoranthene	Fluorene
Benzo[k]fluoranthene	Indeno[1,2,3,-cd]pyrene
Benzo[a]pyrene	Naphthalene
Benzo[g,h,i]perylene	Phenanthrene
Chrysene	Pyrene
Dibenzo[a,h]anthracene	

- (3) Substances emitted by a particular device or process may not be limited to those listed in this Facility Guideline Index .
ALL FACILITIES ARE RESPONSIBLE FOR IDENTIFYING AND ACCOUNTING FOR ANY LISTED SUBSTANCE USED, MANUFACTURED, FORMULATED, OR RELEASED; THIS APPENDIX IS NOT AN EXHAUSTIVE LIST.
- (4) Nitrosamines refer to the following listed substances:
- Dialkylnitrosamines
 - 4-(N-nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)
 - N-Methyl N'-nitro-N-nitrosoguanidine
 - p-Nitrosodiphenylamine
 - N-Nitrosodi-n-butylamine
 - N-Nitrosodiethanolamine
 - N-Nitrosodiethylamine
 - N-Nitrosodimethylamine
 - N-Nitrosodi-n-propylamine
 - N-Nitroso-N-ethylurea
 - N-Nitrosomethylethylamine
 - N-Nitroso-N-methylurethane
 - N-Nitrosomethylvinylamine
 - N-Nitroso-N-methylurea
 - N-Nitrosornicotine
 - N-Nitrosopiperidine
 - N-Nitrosopyrrolidine
 - N-Nitrososarcosine
- (5) This Facility Guideline Index is arranged in alphabetical order. The first part of the index, Appendix C-I, lists device s common to many industries and the second part of the index, Appendix C-II, lists industry types. Extensive cross-referencing has been i ncorporated into the index, particularly in Appendix C-II, to identify industries and processes known by alternative names. It may be necessa ry to consult alternate names to locate a given industry type. Furthermore, more than one industry type may apply to a given facility.

APPENDIX C-I
RESPONSIBILITIES OF ALL FACILITIES

ALL FACILITIES ARE RESPONSIBLE FOR IDENTIFYING AND ACCOUNTING FOR ANY LISTED SUBSTANCE USED, MANUFACTURED, FORMULATED, OR RELEASED; THIS APPENDIX IS NOT AN EXHAUSTIVE LIST.

All Facilities shall account for the following devices and emitting processes and associated emissions, and shall account for ANY OTHER PROCESS EQUIPMENT THAT MAY BE A SOURCE OF RELEASE OF ANY LISTED SUBSTANCE:

Device/Process -----	Types of Emissions -----	Specific Substances (see note 3) -----
FUEL/WASTE COMBUSTION		
Boilers, Heaters, Kilns IC Engines, Furnaces Coal-fired	Particulate metals including but not limited to:	Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Radionuclides, Selenium, Zinc And any other listed metals
	Other particulate-phase substances including but not limited to:	BaP & other PAHs*, Dibenzofurans, Dioxins, Phosphorus, POM
	Gaseous products including but not limited to:	Acetaldehyde, Benzene, Dichlorobenzenes, EDC, EDB, Formaldehyde, Hydrogen chloride, Hydrogen fluoride, Phenols
Oil-fired Residual Distillate	Gaseous and particulate substances including but not limited to:	Arsenic, BaP & other PAHs*, Benzene, Beryllium, Cadmium, Chromium, Copper, Dioxins, Formaldehyde, Lead, Manganese, Mercury, Nickel, POM, Radionuclides, Selenium, Zinc, Any other listed metals
Waste	Arsenic, Benzene, BaP & other PAHs*,	Beryllium, Cadmium, Chloroform, Chromium, Copper, Dibenzofurans, Dioxins, EDB, EDC, Manganese, Mercury, Methylene chloride, Nickel, Perc, PCBs, POM, Toluene, TCA, TCE, Xylenes, Any other listed metals
Natural gas-fired	Gaseous and particulate substances including but not limited to:	Acetaldehyde, Acrolein, Benzene, Formaldehyde, POM, BaP & other PAHs*, Propylene, Toluene, Xylenes, Any other listed metal (due to contamination or other means)

* See Note 2 (Notes appear at the beginning of this index.)

Device/Process -----	Types of Emissions -----	Specific Substances (see Note 3) -----
FUEL/WASTE COMBUSTION continued		
Process gas-fired	Gaseous and particulate substances including but not limited to:	Benzene, Formaldehyde, Phenol, Any other listed metal
Solid Waste-fired	Gaseous and particulate substances including but not limited to:	Formaldehyde, Manganese, Nickel, Phenol
Wood-fired	Gaseous and particulate substances including but not limited to:	Acetaldehyde, Arsenic, Benzene, BaP & other PAHs*, Chromium, Copper, Dioxins, PCBs, POM, And any pesticides used on wood
Other Liquid-fired		
Coke Ovens	From boiler corrosion inhibitor Benzene, BaP & other PAHs*, Benzyl chloride,	Nitrosomorpholine, Any other listed metals Coke oven emissions, Cresols, Dibenzofurans, Dioxins, Nitrosamines, POM
Flares	Particulate metals including but not limited to:	Arsenic, Beryllium, Chromium, Lead, Mercury, Nickel Any other listed metal
	Other particulate-phase substances including but not limited to:	BaP, Dibenzofurans, Dioxins
	Gaseous products including but not limited to:	Aldehydes, Benzene, Dichlorobenzenes, EDB, EDC
Landfill Gas		
Also see Boilers, Heaters, IC Engines, etc, Appendix C-I		
Incinerators - see ALL other combustion releases, but pay particular attention to the following:		
	Particulate metals including but not limited to:	Arsenic, BaP & other PAHs*, Beryllium, Cadmium, Chromium, Copper, Manganese, Mercury, Nickel, POM, Selenium, Zinc, Any other listed metal
	Other particulate-phase substances including but not limited to:	BaP & other PAHs*, Dibenzofurans, Dioxins, PCBs, POM
	Gaseous products including but not limited to:	Benzene, Dichlorobenzenes, EDB, EDC, Hydro- gen chloride, Hydrogen fluoride, Vinyl chloride

Device/Process -----	Types of Emissions -----	Specific Substances (see Note 3) -----
Incinerators continued		
Cotton Gin Waste		Arsenic
Hazardous Waste		Dioxins, Any other listed metals
Hospital Waste		Dioxins, Radionuclides, Any listed metals
Municipal Refuse		BaP & other PAHs*, Beryllium, Cadmium, Chromium, Manganese, Mercury, Nickel, POM
Pathological		Dioxins
Scrap Wood		BaP & other PAHs*, POM
Sludge		Acrolein, Arsenic, Asbestos, Beryllium, Cadmium, Chromium, Dioxins, Manganese, Mercury, Nickel, POM, PAHs*, Any other listed metals
Solid/Biomass Waste		Any listed metals
Waste-To-Energy		Acrolein, Dibenzofurans, Dioxins, Manganese, Nickel, POM, PAHs*, Any other listed metals
SOLVENT USE		
Miscellaneous Use		Acetaldehyde, Acrolein, Benzene, Carbon tetrachloride, CFC-113, Chlorobenzene, Chloroform, Cresols, Dimethyl sulfate, Dioxane, EDC, Mercury, Methanol, Methylene chloride, Nitrobenzene, Perc, Toluene, TCA, TCE, Xylenes, Any other listed chlorinated solvents
Degreasing Operations	Gaseous and aerosol organic compounds including but not limited to:	Benzene, Carbon tetrachloride, Chlorinated fluorocarbon, Chlorobenzene, 1,4-Dioxane, Freons, Methylene chloride, Perc, Toluene, TCA, TCE, Any other listed substances
Cleaning & Drying		Chlorinated fluorocarbons
Metal D'grs		Methylene chloride, 1,4-Dioxane, TCA, TCE
Oil, Wax, Fat Extracting		Carbon tetrachloride, Dichloroethane, Methylene Chloride
Photoresist Stripping		Glycol ethers, Methylene chloride, Xylenes
Vapor Degreasing		Perc, TCE
Fabric Finishing (Woven)		1,4-Dichlorobenzene
Floor Wax		Carbon tetrachloride
Paint & Varnish Removal		Dioxane, Methylene chloride
Polish (Shoe, Furniture)		Carbon tetrachloride

Device/Process -----	Types of Emissions -----	Specific Substances (see Note 3) -----
SOLVENT USE continued		
Rubber Cement	Carbon tetrachloride	
Surface Coating	Gaseous and aerosol organic compounds including but not limited to:	Acetaldehyde, Benzene, Carbon tetrachloride, Chlorobenzenes, Chloroform, Cresols, Dioxane, Methanol, Methylene chloride, Michler's ketone, Nitrobenzenes, 2-Nitro- propane, Perc, Phenol, Phthalic anhydride, Styrene, Toluene, TCA, TCE, Xylenes
	From adhesives	Carbon tetrachloride, Chloroform, Methylene chloride, Toluene, TCE
	From wood finishing	Dioxane, Methylene chloride, Perc, Toluene
	From metal finishing	Perc, Toluene, TCA
Resin Application		Formaldehyde
Coating Application		
Flashoff		
Baking/Curing		
Quenching		
Storage & Handling - see Liquid Storage & Transfer, Appendix C-I		
LIQUID STORAGE & TRANSFER (Fugitive Emissions)		
Pipelines		
Petroleum	Gaseous and aerosol fugitives From: joints, valves	Benzene, Gasoline vapors, Toluene, Xylenes
		Transported listed substances
Process Vents		
Tanks		
Petroleum Products	Gaseous and liquid petroleum products including but not limited to:	Benzene, EDC, Gasoline vapors, Toluene, Xylenes, Stored listed substances
Tank Breathing		
Tank Cars and Trucks		
Filling	Gaseous, liquid and volatile solids including but not limited to:	Each pure organic stored or transferred that is a listed substance
Tank Breathing		Each component of a mixture that is a listed substance
Fugitives	Gaseous and aerosol organic compounds	Emissions vary according to substances
Equipment Leaks	From: vents, tanks, condensers pumps, valves, compressors	involved in specific process

Device/Process -----	Types of Emissions -----	Specific Substances (see Note 3) -----
OTHER PROCESSES		
Contaminated Soil/Water Remediation	Chlorinated organics including: Other organics including	Carbon tetrachloride, Chloroform, EDC, Methyl chloroform, Perc, TCA, TCE Benzene, Chlorobenzene, Toluene, Xylenes
Cooling Towers Comfort Cooling	Gaseous and aerosol releases possibly containing additives and including but not limited to: In part due to drift loss	Chloroform, Chromium, Manganese, Nickel, Any other additives
Process Cooling	Gaseous and aerosol releases possibly containing additives and including but not limited to: In part due to drift loss	Chloroform, Chromium, Manganese, Nickel, Any other additives
Drinking Water Treatment		Chloroform
Industrial Wastewater Treatment	Chlorinated organics including: Other organics including:	Carbon tetrachloride, Chloroform, EDC, Methylene chloride, Perc, TCA, TCE Benzene, Chlorobenzene, Toluene, Xylenes
On-site Fuel Dispensing	Gaseous and aerosol releases including but not limited to:	Benzene, Dibromoethane, Dichloroethane, EDB, EDC, Gasoline vapors, Toluene, Xylenes
Pesticide Use		Arsenic, Carbon tetrachloride, Dibromoethane, 1,4-Dichlorobenzene, Dioxins, EDB, EDC, Lead, Nickel titanate, Zinc oxide
Printing - see Solvent Use, Appendix C-I Also see Printing & Publishing, Appendix C-II		
Sterilizers		ETO, Formaldehyde, Lead, Toluene, Propylene oxide
Surface Coating	Pigments Polymer & Resin Precursors Residues/Impurities	Arsenic, Chromium oxide, Lead oxide, Mercury, Zinc oxide Acrylonitrile, 1,3-Butadiene, Ethyl acrylate, Formaldehyde, Phenol, Styrene, Vinyl chloride, Vinylidene chloride, Any other listed substances

Device/Process -----	Types of Emissions -----	Specific Substances (see Note 3) -----
OTHER PROCESSES, Surface Coating, continued		
	Additives - Curing agents, Surfactants, Defoamers, Thickeners, Film-control agents Plasticizers	Ammonia
Wastewater Treatment		Benzene, Chloroform, EDC, Methylene chloride, TCE, Vinyl chloride, Any other listed substances
CONTROL EQUIPMENT	Emission reductions must be quantified: For each listed substance & device	

APPENDIX C- II

FURTHER RESPONSIBILITIES FOR SPECIFIC FACILITY CLASSES

**APPENDIX C-II
FURTHER RESPONSIBILITIES FOR SPECIFIC FACILITY CLASSES**

NOTHING IN THIS APPENDIX SHALL BE CONSTRUED AS REQUIRING THAT SOURCE TESTING BE CONDUCTED FOR SUBSTANCES SET FORTH IN THIS APPENDIX. FURTHER, IN CASES WHERE A SUBSTANCE SET FORTH HEREIN IS NOT PRESENT AT A PARTICULAR FACILITY, THE FACILITY OPERATOR SHALL NOT ATTEMPT TO QUANTIFY THE EMISSIONS OF SUCH SUBSTANCE, BUT SHALL PROVIDE ADEQUATE DOCUMENTATION TO DEMONSTRATE TO THE DISTRICT THAT THE POSSIBLE PRESENCE OF THE SUBSTANCE AT THE FACILITY HAS BEEN ADDRESSED AND THAT THERE ARE NO EMISSIONS OF THE SUBSTANCE FOR SPECIFIED REASONS.

Notes For APPENDIX C-II

(1) The following substance abbreviations are used throughout the index:

BaP	= Benzo[a]Pyrene
CFC-113	= Chlorinated fluorocarbon
EDB	= Ethylene dibromide
EDC	= Ethylene dichloride
ETO	= Ethylene oxide
Perc	= Perchloroethylene, Tetrachloroethylene
PCBs	= Polychlorinated biphenyls
PAHs	= Polycyclic aromatic hydrocarbons
POM	= Polycyclic organic matter (other than PAHs)
TCA	= 1,1,1-Trichloroethane, Methyl chloroform
TCE	= Trichloroethylene

(2) PAHs are composed of the following substances:

Acenaphthene	Dibenzo[a,e]pyrene
Acenaphthylene	Dibenzo[a,h]pyrene
Anthracene	Dibenzo[a,i]pyrene
Benz[a]anthracene	Dibenzo[a,l]pyrene
Benzo[b]fluoranthene	Fluoranthene
Benzo[j]fluoranthene	Fluorene
Benzo[k]fluoranthene	Indeno[1,2,3,-cd]pyrene
Benzo[a]pyrene	Naphthalene
Benzo[g,h,i]perylene	Phenanthrene
Chrysene	Pyrene
Dibenzo[a,h]anthracene	

- (3) Substances emitted by a particular device or process may not be limited to those listed in this Facility Guideline Index .
ALL FACILITIES ARE RESPONSIBLE FOR IDENTIFYING AND ACCOUNTING FOR ANY LISTED SUBSTANCE USED, MANUFACTURED, FORMULATED, OR RELEASED; THIS APPENDIX IS NOT AN EXHAUSTIVE LIST.
- (4) Nitrosamines refer to the following listed substances:
- Dialkylnitrosamines
 - 4-(N-nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)
 - N-Methyl N'-nitro-N-nitrosoguanidine
 - p-Nitrosodiphenylamine
 - N-Nitrosodi-n-butylamine
 - N-Nitrosodiethanolamine
 - N-Nitrosodiethylamine
 - N-Nitrosodimethylamine
 - N-Nitrosodi-n-propylamine
 - N-Nitroso-N-ethylurea
 - N-Nitrosomethylethylamine
 - N-Nitroso-N-methylurethane
 - N-Nitrosomethylvinylamine
 - N-Nitroso-N-methylurea
 - N-Nitrosornicotine
 - N-Nitrosopiperidine
 - N-Nitrosopyrrolidine
 - N-Nitrososarcosine
- (5) This Facility Guideline Index is arranged in alphabetical order. The first part of the index, Appendix C-I, lists device s common to many industries and the second part of the index, Appendix C-II, lists industry types. Extensive cross-referencing has been incorporated into the index, particularly in Appendix C-II, to identify industries and processes known by alternative names. It may be necessary to consult alternative names to locate a given industry type. Furthermore, more than one industry type may apply to a given facility.

APPENDIX C-II
FURTHER RESPONSIBILITIES FOR SPECIFIC FACILITY CLASSES

ALL FACILITIES ARE RESPONSIBLE FOR IDENTIFYING AND ACCOUNTING FOR ANY LISTED SUBSTANCE USED, MANUFACTURED, FORMULATED, OR RELEASED; THIS APPENDIX IS NOT AN EXHAUSTIVE LIST.

If a facility falls within one or more of the following specific industry types, the facility operator shall account for the following devices and emitting processes, fugitive releases, and their associated emissions, and shall account for ANY OTHER PROCESS EQUIPMENT THAT MAY BE A SOURCE OF RELEASE OF ANY LISTED SUBSTANCE:

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Specific Substances (see Note 3) -----
Adhesives Application - see Solvent Use and Other Processes, Appendix C-I		
Adhesives Mfg - see Chemical Mfg, Appendix C-II		
Aerospace Products Mfg. Research - see Chemical Mfg and Research & Development, Appendix C-II Surface Coating - see Solvent Use & Other Processes, Appendix C-I		
Agricultural Production Agricultural Chem Mfg - see Chemical Mfg, Appendix C-II Cotton Ginning - see Ammonia, Arsenic Pesticide Use - see Other Processes, Appendix C-I Waste Burning - see Combustion, Appendix C-I		Ammonia, Chlorine, EDB, Hydrogen Sulfide, Lead, Silica, All listed metals
Aircraft Mfg - see Transportation Equipment Mfg, Appendix C-II		
Airports - see Transportation Stations, Appendix C-II		
Air Stripping - see Contaminated Soil/Water Remediation, Appendix C-I		
Almond Processing Combustion Processes - see Combustion, Appendix C-I		Arsenic
Apparel Mfg - see Textile Mill, Appendix C-II		
Arsenic Mining - see Mining Non-Metals, Appendix C-II		
Artificial Flower Mfg		Toluene
Asbestos Milling/Processing - see Clay, Glass, & Stone Prod, Appendix C-II		
Asbestos - see Mining Non-Metals, Appendix C-II		

* See Note 2 (Notes appear at the beginning of this index.)

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Canned Food Product Mfg. Can Fabrication - see Metal Product Fabrication, Metal Cans, Appendix C-II Combustion Processes - see Combustion, Appendix C-I Food Processing - see Food Product Mfg, Appendix C-II Paper Labeling - see Wood Product Mfg, Appendix C-II Printing - see Printing & Publishing, Appendix C-II Sterilization - see Other Processes, Appendix C-I Surface Coating - see Solvent Use And Other Processes, Appendix C-I		
Car Mfg/Repair - see Transportation Equipment, Appendix C-II		
Carbon Black & Charcoal Mfg - see Chemical Mfg, Carbon, Appendix C-II		
Cement Mfg - see Clay, Glass, & Stone Prod Mfg, Appendix C-II		
Ceramic Plants Combustion Processes - see Combustion, Appendix C-I		Beryllium
Charcoal Mfg - see Carbon, Appendix C-II		
Chemical Mfg Gaseous and aerosol releases including but not limited to: From process reactor vessel fugitive, storage, handling, ducted building exhaust		Any of the following types of chemicals, listed in Appendix A-I or A-II: FEEDSTOCK CHEMICAL(S) MANUFACTURED CHEMICAL(S) BY-PRODUCT CHEMICALS
Also see Combustion, Other Processes, Solvent Use, and Storage & Handling, Appendix C-I		
Miscellaneous		Ammonia, Bis(chloromethyl) ether, Carbon tetrachloride, Chlorine, Chloroform, Copper, Cresol, ETO, Formaldehyde, Hydro- gen chloride, Lead, Methylene chloride, Naphthalene, Phenol, Toluene, Toluene diisocyanate, TCA
Acids Mfg		Acetaldehyde, Acrolein, Copper, Cresols, Hydrochloric acid, Phenol, Toluene, Xylenes
Adhesives & Sealants Mfg		Ammonia, Arsenic, Asbestos, Benzene, 1,4- Dioxane, EDC, Lead, Methylene chloride, Nitrosomorpholine, Toluene, TCA, TCE, Xylenes
Aerospace Chem Mfg		Chloroform, EDC, Phosgene, Toluene

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg continued Agricultural Chem Mfg Miscellaneous		Acetaldehyde, Acrolein, Acrylonitrile, Ammonia, Arsenic, Benzene, 1,3-Butadiene, Cadmium, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Copper, Cresol, 1,4-Dichlorobenzene, Dimethyl sulfate, EDC, EDB, ETO, Formaldehyde, Hexachlorobenzene, Hexachlorocyclopentadiene, Hydrazine, Hydrogen chloride, Hydrogen sulfide, Lead, Maleic anhydride, Mercury, Methyl bromide, Methyl isocyanate, Methylene chloride, Naphthalene, Phenol, Phosgene, Phthalic anhydride, Vinyl chloride, Xylenes, Zinc, Zinc oxide
Alkali Mfg - see Chemical Mfg, Industrial Inorganics, Appendix C-II Fertilizers		Ammonia, Hydrogen sulfide, Mercury, Metal compounds, Methanol, Phosphorus, Sodium hydroxide
Nitrogenous		Ammonia, Cadmium, Hydrogen sulfide, Lead Nickel
Phosphatic		Ammonia, Arsenic, Cadmium, Hydrogen sulfide
Mixing Only		Ammonia
Sodium Arsenate		Arsenic
Aldehyde Mfg		Aldehydes, Toluene
Anti corrosives Mfg		Cresols, Hydrazine
Bases Mfg		Ammonia, Hydrazine, Sodium hydroxide
Carbon Black & Charcoal Mfg		Ammonia, BaP & other PAHs*, Formaldehyde, Hydrogen sulfide, POM Any other listed metals
Combustion Processes - see Combustion, Appendix C-I		
Chemical Preparations		Ammonia, Arsenic, Benzene, Cadmium, Chlorine, Chromium, Copper, Formaldehyde, Hexachlorocyclopentadiene, Hydrazine, Hydrogen chloride, Hydrogen sulfide, Lead, Maleic anhydride, Methyl isocyanate, Methyl methacrylate, Perc, Radionuclides, Styrene, Toluene, TCE, Vinyl chloride, Xylenes, Zinc, Zinc oxide
Chlorine (Electrolytic) Production	From: hydrogen stream	Mercury
Also see Chem Mfg, Industrial Inorganics, Alkalies & Chlorine, Appendix C-II		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg continued Drug/Pharmaceutical Mfg Miscellaneous		Acrylonitrile, Allyl chloride, Ammonia, Arsenic, Benzene, Benzyl chloride, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Chromium, 1,4-Dichlorobenzene, Dimethyl sulfate, 1,4-Dioxane, Epichlorohydrin, EDB, EDC, Formaldehyde, Hydrazine, Hydrogen chloride, Lead, Mercury, Methanol, Methyl methacrylate, Methylene chloride, Perc, Phenol, Phosgene, Styrene, Toluene, TCA, TCE, Vinylidene chloride, Xylenes, Zinc, Zinc oxide Arsenic, Benzene, EDC, Lead, TCA
Biological Products Medicinals & Botanicals		Acrylonitrile, Ammonia, Arsenic, Benzene, Carbon tetrachloride, Chloroprene, Chlorine, EDC, Formaldehyde, Hydrogen chloride, Lead, Mercury, Methyl bromide, Methyl methacrylate, Methylene chloride, Phenol, Styrene, Toluene, Vinylidene chloride
Blender Combustion Processes - see Combustion, Appendix C-I Drying Ovens Formulator Other Process Reactors Solvents - see Solvent Use, Appendix C-I Sterilizers - see Sterilizers, Appendix C-I Tanks - see Liquid Storage & Transfer, Appendix C-I		
Dyes Mfg		Benzene, Benzidine, Benzyl chloride, Chlorobenzenes, Chloroform, Cresols, Dichloromethane, Dimethyl sulfate, Dioxane, C.I. Direct Black 38, Hydrazine, POM, PAHs*, TCE, Vinyl chloride, Vinylidene chloride
Elastomer & Surfactant Mfg Batch Processes		Epichlorohydrin
Ethers Mfg	Dimethyl sulfate, Nitrobenzene, Propylene	oxide
Ethylene dichloride Pro Oxychlorination Air & Oxygen Proc	From: vents, storage	Carbon tetrachloride, Chloroform, ethylene dichloride
Explosives		Acetaldehyde, Ammonia, Arsenic, Formaldehyde, Lead, Mercury, Nitrobenzene, Phenol, Toluene

Industry/
Emitting Process

Type(s) of Emissions/
Emitting Process Points

Some Specific Substances
(Including, but not limited to)

Chemical Mfg continued

Fertilizers - see Chemical Mfg (Agricultural), Appendix C-II

Flame Retardants Mfg

Fluorocarbon Mfg
Reactor Venting
Distillation
Storage

From: vents, storage

Indust Inorg Chem Mfg
Miscellaneous

Alkalies & Chlorine

Cyclic Crudes &
Intermediates

Hexachlorocyclopentadiene

Carbon Tetrachloride, Chloroform

Acetaldehyde, Acrolein, Acrylonitrile, Allyl chloride, Ammonia, Arsenic, Asbestos, Benzene, Benzidine, Benzyl chloride, 1,3-Butadiene, Cadmium, Carbon tetrachloride, CFC 113, Chlorine, Chlorobenzene, Chloroform, Chromium, Copper, 1,4-Dichlorobenzene, Epichlorohydrin, EDB, EDC, ETO, Formaldehyde, Freon 113, Gasoline vapors, Hexachlorobenzene, Hexachloropentadiene, Hydrogen chloride, Hydrogen sulfide, Lead, Maleic anhydride, Manganese, Mercury, Methyl isocyanate, Methyl methacrylate, Methylene chloride, Naphthalene, Nickel, Nitrobenzene, Nitrosomorpholine, Perc, Phenol, Phosgene, Phosphorus, Phthalic anhydride, PCBs, Propylene oxide, Radionuclides, Styrene, Toluene, Toluene diisocyanate, TCA, TCE, Vinyl chloride, Vinylidene chloride, Xylenes, Zinc, Zinc oxide
Ammonia, Arsenic, Asbestos, Benzene, 1,3-Butadiene, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Formaldehyde, Hydrogen chloride, Mercury, Phosgene, Toluene, TCE, Vinyl chloride, Vinylidene chloride

Acetaldehyde, Acrolein, Acrylonitrile, Ammonia, Arsenic, Benzene, Benzidine, Benzyl chloride, 1,3-Butadiene, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Chromium, Cresol, Dibenzofurans, 1,4-Dichlorobenzene, 3,3'-Dichlorobenzidine, Dimethyl sulfate, 1,4-Dioxane, EDC, Formaldehyde, Gasoline vapors, Hexachlorobenzene, Hydrazine, Hydrogen chloride, Hydrogen sulfide, Maleic anhydride, Methyl bromide, Methyl isocyanate, Methylene chloride, Naphthalene, Nitrobenzene,

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg, Cyclic Crudes, continued		
Gum & Wood Chemicals		Nitrosomorpholine, Pentachlorophenol (Chlorophenols), Phenol, Phosgene, Phthalic anhydride, POM, PAHs*, Styrene, Toluene, Toluene diisocyanate, TCE Xylenes, Vinyl chloride
Wood Chem Mfg		Arsenic, Benzene, BaP & other PAHs*, Chromium, Formaldehyde, Naphthalene, POM, Toluene diisocyanate
Cresol		Cresols, Phenol, Xylenes
Cresylic Acid		
Phenol		
Industrial Gases		Arsenic, Beryllium, Carbon tetrachloride, ETO, Hydrogen chloride, Mercury
Pigments, Inorgan		Ammonia, Arsenic, Cadmium, Chloroform, Chromium, Copper, Dimethyl sulfate, 1,4- dioxane, Hydrazine, Hydrogen chloride, Lead, Zinc, Zinc oxide
Inks		
Miscellaneous Printing		Dioxane, Toluene Ammonia, Arsenic, Benzene, Cadmium, Copper, Formaldehyde, Lead, Perc, Toluene, Vinyl chloride, Xylenes, Zinc
Metal Chelating Agent Mfg		Cupferron, Thiourea
Corrosion Inhib,		
Metal Treatment Chems		
Methionide Analogs Prod (poultry feed supp.)		Acrolein
Methyl Chloroform Prod	From: hydrochlorinated vent condenser, steam stripper vent condenser	Ethylene dichloride
Military Chem Prod		Chloroform, EDC, Phosgene, Toluene
Monomers		
Miscellaneous		Acetaldehyde, Acrylonitrile, Ammonia, Ben- zene, 1,3-Butadiene, Carbon tetrachloride, Chlorine, Chlorofluorocarbons, Dioxane, Epichlorohydrin, Ethyl chloride, EDB, EDC, ETO, Formaldehyde, Glycol ethers, Hydro- chloric acid, Isocyanates, Maleic anhydride, Methyl bromide, Methyl methacrylate, Methylene chloride, Naphthalene, Nitrobenzene, Perc, Phenol, Phthalic anhydride,

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg, Monomers, continued		PCBs, Propylene, Propylene oxide, Sodium hydroxide, Styrene, Toluene, TCA, TCE, Trichlorophenol, Urethane, Vinyl chloride, Vinylidene chloride, Xylenes, Zinc EDC
Vinyl Chloride	From: heavy ends stream	
Nuclear Fuel Fabrication		Radionuclides
Organic Chem Mfg		Acrylamide, Acrylonitrile, Carbon tetrachloride, Chlorobenzene, Chloroform, Methylene chloride, Perc, Toluene
Paints & Allied Prod's		Acetaldehyde, Ammonia, Arsenic, Asbestos, Benzene, Butadiene, Carbon tetrachloride, Chloroform, Chlorophenols, Chromium, Copper, Cresol, 1,4-Dioxane, Epichlorohydrin, Formaldehyde, Glycol ethers, Lead, Mercury, Methyl methacrylate, Methylene chloride, Naphthalene, Nickel, Nitrobenzene, Perc, Phenol, Phthalic anhydride, Styrene, Toluene, Toluene diisocyanate, TCA, TCE, Zinc, Zinc oxide
Pigment		Benzyl chloride, Cadmium, Toluene
Perfume		Dimethyl sulfate
Pesticides, Herbicides, Fungicides Mfg		Arsenic, Benzene, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Chloropicrin, Cresols, 1,4-Dichlorobenzene, Dimethyl sulfate, Dioxins, EDB, Hexachlorocyclopentadiene, Hydrazine, Hydrocyanic acid, Isocyanates, Lead arsenate, Methyl bromide, Naphthalene, N-Nitrosodimethylamine, Phenol, Phosphorus
Photographic Chemicals Mfg		Methylene chloride
Pigment (metal containing) Mfg Also see Chem Mfg, Inks and Paints, Appendix C-II		Cadmium, Chromium, Copper, Lead, Nickel, Zinc
Plastics Materials & Synthetics		Acrylamide, Acrylonitrile, Acrolein, Ammonia, Arsenic, Benzene, Benzidine, Cadmium, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Chromium, Cresols, Dichloromethane, Dioxins, Formaldehyde, Hydrazine, Hydrocyanic acid, Hydrochloric acid, Hydrogen fluoride, Hydrogen sulfide, Isocyanates, Mercury, Methylene chloride, Nickel, Perc, Phenol, Phosgene, POM, PAHs*, Sodium hydroxide, Toluene, TCE, Vinyl chloride, Vinylidene chloride, Zinc

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg, Plastics, continued		
Cellulosic Man-Made Fibers		Ammonia, Arsenic, Benzene, Chlorine, EDC, Hydrogen chloride
Organic Fibers, noncellulosic		Acrylonitrile, Copper, Dimethyl sulfate, EDC, Toluene diisocyanate, Vinylidene chloride
Plastics/Resins		Acetaldehyde, Acrolein, Acrylonitrile, Allyl chloride, Ammonia, Arsenic, Asbestos, Benzene, 1,3-Butadiene, Cadmium, Carbon tetrachloride, Chlorine, Chloro- ethane, Cresol, Epichlorohydrin, EDC, ETO, Formaldehyde, Gasoline vapors, Hydrogen chloride, Hydrogen sulfide, Lead, Maleic anhydride, Mercury, Methyl methacrylate, Methylene chloride, Nitrobenzene, Perc, Phenol, Phosgene, PCB, Propylene oxide, Styrene, Toluene, Toluene diisocyanate, TCE, Vinyl chloride, Vinylidene chloride, Xylenes, Zinc oxide
Resin Mfg.		Acrylamide, Acrylonitrile, Ammonia, Ben- zene, Bis(chloromethyl) ether, Cresols, Dioxins, Epichlorohydrin, Formaldehyde, Hexachlorocyclopentadiene, Maleic anhydride, Phenol, Vinylidene chloride, Xylenes
Rubber Production & Compounding Synthetic Monomers	Gaseous, Aerosol, & Particulate re- leases including but not limited to:	Acrylonitrile, 1,3-Butadiene, Chloropyrene, Epichlorohydrin, Ethyl acrylate, EDC, ETO, Propylene, Styrene
Retardants Catalysts Solvents Miscellaneous		n-Nitrosodiphenylamine, Phthalic anhydride Nickel Toluene Acetaldehyde, Acrylonitrile, Allyl chloride Ammonia, Benzene, Benzhidine, 1,3-Butadiene, Carbon tetrachloride, Chlorine, Chloroform, Chloroprene, 3,3-Dichlorobenzidine, Epi- chlorohydrin, EDC, Hydrogen chloride, Lead, Maleic anhydride, Methylene chloride, Nitrosomorpholine, Perc, Sodium hydroxide, Styrene, Toluene, Toluene diisocyanate, Vinylidene chloride
Also see Chem Mfg, Monomers, Appendix C-II Synthetic Fibers		Hydrogen sulfide
Polish & Wax Mfg		Chloroform, Dioxane, Nitrosomorpholine

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg continued		
Preservatives, disinfectants, biocides -		Cresols, Formaldehyde, Mercury, Phenol, 2,4,5-Trichlorophenol, Zinc Oxide
Rubber, Non-Vulcanized, Mfg		Dioxins, Formaldehyde, Phenols
Rubber Compounding	Processing Aids Accelerators	Zinc Ethylene thiourea, n-Nitrosodimethylamine, Zinc
	Age Restorers Vulcanizing Agents Accelerator Activators	Nickel, Phenol Lead, Selenium, Zinc Zinc, Lead, Ammonia
Solvents Mfg		Chloroform, Dioxins, Formaldehyde
Soap, Cleaners, & Toilet Goods		Glycol ethers, Methanol, Dioxane
Soap & Detergent Mfg Miscellaneous		Ammonia, Chlorine, Hydrogen chloride
Optical Brighteners Polishes & Sanita- tion Goods		Benzene, EDC, ETO, Formaldehyde, Hydrogen sulfide, Methyl methacrylate, Toluene Nitrosomorpholine
Surface Active Agents		Ammonia, Arsenic, Benzene, Carbon tetra- chloride, Chlorine, Chloroform, Cresol, 1,4-Dichlorobenzene, 1,4-Dioxane, Epichlorohydrin, Formaldehyde, Hydrogen chloride, Methylene chloride, Nitrobenzene, Perc, Toluene, TCA, TCE, Zinc, Zinc oxide
Toilet Preparations		Benzene, Benzyl chloride, 1,4-Dioxane, Propylene oxide, Toluene, Zinc, Zinc oxide Acetaldehyde, Acrolein, Ammonia, Arsenic, Benzene, Benzyl chloride, CFC-113, Dimethyl sulfate, 1,4-Dioxane, Formaldehyde, Methylene chloride, Perc, Toluene, TCA, TCE, Zinc, Zinc oxide
Textile Chemical Mfg		Acetamide, 2,4-Diaminoanisole, 2,4-Diamino- anisole sulfate, Urethane
Varnish Mfg		Benzene, Dioxane
(High)-Vinylidene Chloride Copolymer Fabric Process		Vinylidene Chloride
Wax Mfg - see Polish Mfg, Appendix C-II		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Chemical Mfg continued		
Wood Chem Mfg - see Chem Mfg, Indus Inorgan, Gum & Wood, Appendix C-II		
Chemicals, Sales		Ammonia, Benzene, 1,3-Butadiene, Hydrogen chloride, Methylene chloride, Styrene, Toluene, TCA, Vinyl chloride
Storage & Handling - see Liquid Storage & Transfer, Appendix C-I		
Chrome Plating - see Metal Plating, Appendix C-II		
Clay, Glass & Stone Pro Miscellaneous		Ammonia, Arsenic, Cadmium, Chlorine, Chromium, Hydrogen chloride, Lead, Mercury, Nickel, Silica, Toluene, TCA, TCE
Abrasive Products		Ammonia, Cadmium, Chlorine, Chromium, Formaldehyde, Hydrogen chloride, Lead, Manganese, Methylene chloride, Perc, Phenol, Styrene, Toluene, TCA, Xylenes, Zinc
Asbestos Mill/Processing		Asbestos, Benzene, Chromium, Copper, Nickel, Silica Formaldehyde, Hydrogen sulfide, Naphthalene, TCA, Xylenes
Cement Products Floor Tile Friction Material Textiles		
Cement Mfg	Particulate, Gaseous, Aero Emis including but not limited to: From stacks, feed to mill & air separator, kiln, dryers, grinders	Asbestos, BaP, Benzene, Beryllium, Cadmium, Chromium, Copper, Formaldehyde, Hydrogen chloride, Lead, Manganese, Nickel, PCBs, POM, PAHs*, Zinc, All listed metals
Clinker Cooler Combustion Processes	Benzene, Formaldehyde, Hydrogen chloride,	PCBs, POM, PAHs*, All listed metals
Also see Combustion, Appendix C-I Dry Processes Hydraulic		Arsenic, Cadmium, Chlorine, Chromium, Copper, Hydrogen chloride, Lead, Mercury, Nickel, Toluene, Zinc
Wet Process Clay Products, Structural Brick & Structural Clay Tile Ceramic Wall & Floor Tile Clay Refractories		Arsenic, Beryllium, Lead Arsenic, Beryllium, Lead Beryllium, Chromium, Mineral fibers

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Clay, Glass & Stone Pro continued		
Concrete, Gypsum, & Plaster Products		Chromium, Styrene
Concrete Block & Brick		Ammonia, Chromium, Gasoline vapors, Toluene, Zinc
Concrete Products		Asbestos, Hydrogen sulfide
Ready-mixed Concrete		Mercury
Lime		TCE
Cut Stone & Stone Prod		Ammonia, Arsenic, Cadmium, Chlorine, Chromium, Hydrogen, Nickel, Toluene
Flat Glass		
Gaskets, Packing, & Sealing Devices		Ammonia, Asbestos, Chlorobenzene, Gasoline vapors, Hydrogen chloride, Lead, Toluene, TCE, Zinc
Glass & Glassware, Pressed & Blown		Ammonia, Arsenic, Cadmium, Chlorine, Chromium, Formaldehyde, Hydrogen chloride, Lead, Mercury, Methylene chloride, Nickel, Perc, Styrene, Toluene, TCA
Glass Container Mfg	From glass furnace	Arsenic Arsenic, Chlorine, Hydrogen chloride, Methylene chloride
Minerals, Ground or Treated		Chlorine, Chromium, Copper, Gasoline vapors, Hydrogen chloride
Mineral Wool Prod		Ammonia, Carbon tetrachloride, Formaldehyde, Mineral fibers, Phenol
Nonclay Refractories		Ammonia, Beryllium, Chromium, Formaldehyde, Hydrogen chloride, Mineral fibers, Phenol, Zinc, Zinc oxide
Nonmetallic Mineral Prod		Chlorine, Copper, Hydrogen chloride, Mineral fibers, Styrene, Toluene
Pottery & Related Prod		Lead, TCA
Vitreous Plumbing Fixtures		Styrene, Toluene
Fine Earthen Food Utensils		Ammonia, Beryllium, Copper, Hydrogen sulfide, Lead, Methyl bromide, Naphthalene, Perc, Toluene, TCE, Zinc
Purchased Glass Products		Ammonia, Toluene, TCE, Xylenes
Combustion Processes - see Combustion, Appendix C-I		
Other Processes - see Other Processes, Appendix C-I		
Coal Combustion - see Combustion, Appendix C-I		
Coal, Wholesaling		Zinc, Zinc oxide
Coke Combustion - see Combustion, Appendix C-I		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Coke Production Also see Metal Smelters, Appendix C-II		POM, PAHs*, Toluene
Colleges & Universities Miscellaneous Also see Chem Mfg, Appendix C-II Combustion, Appendix C-I Research & Development, Appendix C-II Solvent Use, Appendix C-I		Benzene, Carbon tetrachloride, Chloroform, Methylene chloride, Dioxane, Formaldehyde, Mercury, Nitrobenzene, Phenol, Toluene, TCA, Xylenes, Any other listed substance
Combustion Processes - see Combustion, Appendix C-I		
Commercial/Institutional Combustion - see Combustion, Appendix C-I		
Cooling Towers - see Other Processes, Appendix C-I		
Correctional Institutions - see Combustion, Appendix C-I		
Cotton Ginning - see Agricultural Prod, Appendix C-II		
Crop Production - see Agricultural Prod, Appendix C-II		
Dry Cleaning Operations		Chlorinated Fluorocarbon, EDC, Perc, Toluene, TCA, TCE
Dyeing of Textiles	Gaseous, aerosol, and particulate releases, including but not limited to: Due to toxics in the solutions Fixatives Oxidizing Agents Dyeing Aids	Dyes - Auramine, Direct Black 38, Copper, Chromium Copper, Chromium Chromium Formaldehyde, Perc, Sodium hydroxide (caustic soda)
Combustion Processes - see Combustion, Appendix C-I		
Elec. or Natural Gas Service Combustion Processes - see Combustion, Appendix C-I Cooling Towers - see Other Processes, Appendix C-I		TCA
Electrical Assembly Cleaning - see Degreasing, Appendix C-I		
Electrical & Electronic Equip Miscellaneous		Freon 113, Methylene chloride, Perc, TCA, TCE

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Electric & Electronic Equip continued		
Communication Equipment		
Radio & TV Commun- ication Equipment		Ammonia, Benzene, Chlorine, Copper, Formaldehyde, Hydrogen chloride, Hydrogen sulfide, Lead, Methylene chloride, Perc, Toluene, Toluene diisocyanate, TCA, TCE, Xylenes, Zinc
Telephone & Tele- graph Apparatus		Ammonia, Copper, Formaldehyde, Hydrogen chloride, Methylene chloride, Perc, Styrene, Toluene, TCA, TCE, Xylenes
Electric Distrib Equip Transformers		Ammonia, Naphthalene, Toluene, TCA, TCE Ammonia, Beryllium, Hydrogen chloride, Lead, Methylene chloride, Naphthalene, Perc, PCB, Toluene, TCA, TCE, Vinyl chloride, Xylenes, Zinc oxide
Switchgear & Switch- board Apparatus		Ammonia, Formaldehyde, Hydrogen chloride, Perc, Toluene, TCA, TCE
Electrical Industrial Apparatus		Ammonia, Arsenic, BaP, Copper, Hydrogen chloride, Lead, Mercury, Perc, PCB, Toluene, TCA, TCE
Motors & Generators		Ammonia, Formaldehyde, Hydrogen chloride, Lead, Naphthalene, Phenol, Styrene, Toluene, TCA, TCE
Industrial Controls		Ammonia, Styrene, Toluene, TCA, TCE
Welding Apparatus, Electric		
Carbon & Graphite Products		
Electronic Components & Accessories		
Batteries		
Primary, Dry & Wet		
Storage		
Cat'd Ray Pict'r Tubes		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Electric & Electronic Equipment Prod continued		
Electron Tubes, Transmitting		Ammonia, Benzene, Beryllium, Cadmium, Chromium, Copper, Hydrogen chloride, Lead, Nickel, Styrene, Toluene, TCE, Xylenes
Electron Capacitors		Allyl chloride, Chromium, Epichlorohydrin, Lead, Methylene chloride, TCA, TCE
Integrated Circuit Board Mfg	From: developer, stripper screening-hardener	Butyl cellosolve (a Glycol ether)
Semiconductors & Related Devices		Formaldehyde, Methylene chloride
		Acetone, Ammonia, Arsine, Arsenic, Beryllium, Chlorine, Chlorobenzene, Ethylene glycol, Hydrazine, Hydrochloric acid, Hydrogen chloride, Hydrogen fluoride, Lead, Mercury, Methanol, Methylene chloride, Nickel, Perc, Phenol, Phosphene, Styrene, Toluene, Toluene diisocyanate, TCA, TCE, Xylenes, Zinc
Solvent Stations - see Liquid Storage & Transfer, Appendix C-I		
Wet Chemical Stations		
Mfg Process Reactors (Siliconizing)		
Chemical Vapor Deposition		
Diffusion Furnaces - see Combustion, Appendix C-I		
Photoresist Lines		
Surface Coating/Cleaning - see Solvent Use, Appendix C-I		
Household Appliances		
Elec Housewares/Fans	Beryllium, Toluene	
Household Cooking Equipment		TCA, TCE
Household Laundry Equipment		Perc, Toluene
Household Refriger- ators & Freezers		
Sewing Machines		Toluene
Electric Lighting & Wiring Equipment		Toluene, TCA
Electric Lamps		Toluene, TCE
Lighting Fixtures		Ammonia, Cadmium, Mercury, Toluene, TCA, TCE
Commercial		
Residential		Toluene, TCA
Wiring Devices		Ammonia, Hydrazine, Toluene, TCA, TCE
Current-Carrying		
Noncurrent-Carry		Ammonia, Copper, Formaldehyde, Hydrogen chloride, Manganese, Methylene chloride, Nickel, Perc, Phenol, Toluene, Toluene diisocyanate, TCA, TCE, Zinc
Radio & TV Rec'ing Sets		Copper, Hydrogen chloride, Styrene, Toluene, TCE, Vinyl chloride, Zinc
Semiconductor Production - see Electric & Electronic Equip, Integrated Circuit, Appendix C-II		Ammonia, Toluene, TCA, TCE, Xylenes

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Electric & Electronic Equip continued X-Ray Apparatus & Tubes		Beryllium, Hydrogen chloride, Perc, Toluene, TCA
Elec, Gas, & Sanitary Svc's Electric Services		Acetaldehyde, Arsenic, Benzene, BaP, Beryllium, Cadmium, Chromium, Copper, Formaldehyde, Lead, Manganese, Mercury, Nickel, POM, PAHs*, PCBs, TCA Hydrogen sulfide
Gas & Other Svc's Water Supply		Arsenic, Chromium, Hydrogen chloride, Hydrogen sulfide, Mercury, Perc, TCA, TCE
Sanitary Services		Benzene, Chloroform, EDC, Methylene chloride, Perc, TCA, TCE, Vinyl chloride
Refuse Systems		Ammonia, Arsenic, Beryllium, Cadmium, Chlorine, Chromium, Copper, Hydrogen chloride, Lead, Manganese, Mercury, Nickel, POM, PAHs*, PCBs, Toluene, Vinyl chloride, Zinc
Sewerage Systems		Ammonia, Arsenic, Cadmium, Chromium, Copper, Hydrogen chloride, Lead, Mercury, Nickel, Zinc
Steam Supply		Benzene, Formaldehyde, Toluene
Electroplating - see Metal Plating, Appendix C-II		
Extermination - see Other Processes, Pesticide Use, Appendix C-I		
Felt Mfg		Asbestos
Fiberboard Mfg - see Wood Product Mfg, Appendix C-II		
Floor Cover Mfg, Hard Surface		Benzene
Floor Tile Mfg.		Asbestos
Food Prod Mfg		
Miscellaneous		Perc, Toluene
Bakery Products		Benzene, Formaldehyde, Toluene
Beverages		Ammonia, Formaldehyde,
Milk (Condens & Evap)		Ammonia, Benzene, Formaldehyde, Toluene
Soft Drinks		Arsenic, Toluene
Canned Foods		Arsenic, Benzene, Formaldehyde, Toluene
Fats & Oils		EDC, Methylene chloride
Shorten & Cook Oils		Nickel, Toluene
Soybean Oil Mills		EDC
Food Preparation, Misc		Acetaldehyde, Benzene, Benzidine, Carbon Tetrachloride, Chloroform, Dimethyl sul- fate, Epichlorohydrin, ETO, Formaldehyde, Maleic Anhydride

C - 27

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Furniture & Fixture Mfg, continued		
Combustion Process - see Combustion, Appendix C-I		
Degreasing - see Solvent Use, Appendix C-I		
Metal Working - see Metal, Appendix C-II		
Surface Coating - see Solvent Use and Other Processes, Appendix C-I		
Upholstery Mfg - see Textiles, Appendix C-II		
Wood Working - see Wood, Appendix C-II		
Furniture Stores		Ammonia, Methylene chloride, Toluene, TCA
Furniture Repair/Reupholstering		Ammonia, Lead, Methylene chloride, Toluene, Xylenes
Cleaning - see Dry Cleaning, Appendix C-II		
Gas Combustion - see Combustion, Appendix C-I		
Gas Stations		Benzene, EDB, EDC, Gasoline vapors, Toluene, Xylenes
Liquid Storage & Transfer - see Liquid Storage & Transfer, Appendix C-I		
Vehicle Refueling - see Other Processes, Appendix C-I		
Glass Products - see Clay, Glass & Stone Products, Appendix C-II		
Grain Production - see Agricultural Prod and Food Prod, Appendix C-II		
Grain Wholesaling		Ammonia
Grey Iron Foundries - see Metal Smelters & Foundries, Appendix C-II		
Hospitals		ETO, Hydrogen chloride, Hydrogen sulfide, Phenol, Styrene
Gen'l Medical & Surgical		ETO
Medical Labs		
Combustion Processes - see Combustion, Appendix C-I		
Medical Instrument Mfg - see Instrument Mfg, Appendix C-II		
Research - see Research & Development, Appendix C-II		
Sterilizers - see Other Processes, Appendix C-I		
Incineration - see Combustion, Appendix C-I		
Industrial Combustion - see Combustion, Appendix C-I		
Industrial Wastewater Treatment - see Other Processes, Appendix C-I		
Inorganic Chemical Mfg - see Chemical Mfg, Inorganic, Appendix C-II		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Instruments & Related Prod's Engineering & Science Instr		Freon 113, Toluene, TCA Ammonia, Arsenic, Asbestos, Beryllium, Cadmium, Chromium, Copper, Formaldehyde, Hydrogen chloride, Lead, Methylene chloride, Perc, Phenol, Toluene, TCA, TCE, Zinc
Meas & Controlling Devices Environmental Controls		Ammonia, ETO, Mercury, Toluene Beryllium, Chlorine, Hydrogen chloride, Mercury, TCE
Process Control Inst		Beryllium, Cadmium, Hydrogen chloride, Toluene, Zinc, Zinc oxide
Electricity Meas- uring Instruments		Beryllium, Toluene, TCA
Medical Instr & Supplies		Ammonia, Hydrogen chloride, Toluene, TCE
Dental Equip & Supp		Ammonia, Cadmium, Chlorine, ETO, Formaldehyde, Phenol, Toluene, TCA, Zinc, Zinc oxide
Ophthalmic Goods		Ammonia, TCA, TCE
Photographic Equip & Supplies		Acetaldehyde, Acrylonitrile, Ammonia, Arsenic, Asbestos, Benzene, Benzidine, Benzyl chloride, Bis(chloromethyl) ether, Cadmium, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Chromium, Dimethyl sulfate, 1,4-Dioxane, Epichloro- hydrin, EDC, Formaldehyde, Hydrazine, Hydrogen chloride, Lead, Mercury, Methylene chloride, Naphthalene, Nickel, Perc, Phenol, Phosgene, Propylene oxide, Styrene, Toluene, Toluene diisocyanate, TCA, TCE, Vinyl chloride, Vinylidene chloride, Xylenes, Zinc, Zinc oxide
Surgical & Med Instr		ETO, Formaldehyde, Perc, Toluene, TCA, TCE, Zinc
Srg Appliances & Sup		Ammonia, Chromium, ETO, Formaldehyde, Hydrogen chloride, Lead, Nickel, Toluene, TCA, Vinylidene chloride
Optical Instr & Lenses		Acetaldehyde, Formaldehyde, Methylene chloride, Toluene, TCA, TCE
Watches/Clocks/Watchcases		Hydrogen chloride, Toluene, TCE
Plating - see Metal Plating, Appendix C-II		
Also see - Combustion, Other Processes, and Solvent Use Appendix C-I		
Metal, Plastic, and Rubber, Appendix C-II		
Jewelry, Silverware, & Plated Ware		
Jewelry, Costume		Ammonia, Chlorine, Hydrogen chloride, Lead, Perc, Toluene, TCE
Jewelry, Precious Metal		Ammonia, Freon 113, Hydrogen chloride, Lead, Toluene, TCA, TCE
Jewelers Materials & Lapidary Work		Ammonia, Hydrogen chloride, Lead

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Jewelry, Silver & Plated Ware continued Silverware & Plated Ware		Ammonia, Beryllium, Hydrogen chloride, Lead, TCE
Degreasing - see Solvent Use, Appendix C-I		
Landfills		
Gas Recovery		Benzene, Methylene chloride, Perc, TCE, Vinyl chloride, Vinylidene chloride Asbestos
Refuse Landfills		
Combustion Processes - see Combustion, Appendix C-I		
Fugitives - see Liquid Storage & Transfer, Appendix C-I		
Laundry, Cleaning, & Garment Svc's - see Dry Cleaning, Appendix C-II		
Leather & Leather Products		
Leather Tanning & Finishing		Arsenic, Chromium Copper, Formaldehyde, Lead, Naphthalene, Toluene Toluene Toluene, TCE Chromium, Cresols, Formaldehyde, Phenol Cresols, Formaldehyde, Phenol Cadmium, Chromium, Copper, Direct Black 38, Lead, Nickel, Zinc compounds Ammonia, Chlorine, Chloroform, 1,2-Dichloro- benzene, Glycol ethers, Hydrochloric acid, Methylene chloride, Perc, Sodium hydroxide, Toluene, TCA, TCE, Xylenes
Footwear, not rubber		
Personal Leather Goods		
Tanning Processes	Tanning agents Dyes, pigments, & coloring agents Miscellaneous	
Combustion Processes - see Combustion, Appendix C-I		
Liquid Storage and Transfer - see Liquid Storage & Transfer, Appendix C-I		
Surface Coating - see Solvent Use and Other Processes, Appendix C-I		
Lumber Prod Mfg - see Wood Product Mfg, Appendix C-II		
Machinery Mfg, Except Electrical		Ammonia, Formaldehyde, Freon 113, Methylene chloride, Nickel, Phenol, Toluene, TCA, TCE
Construction & Related Machinery		Carbon tetrachloride, Hydrogen chloride, Perc, Toluene Ammonia, Toluene, TCE Toluene Ammonia, Cadmium, Copper, Lead, Zinc Perc, Toluene
Construction Machinery		
Conveyors & Conveying Equipment		
Elevators & Moving Stairways		
Hoists, Cranes, & Monorails		
Indstl Trucks/Tractors		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Machinery, Construction Related continued		
Oil Field Machinery		Chromium, Lead, Nickel, TCA, Xylenes
Engines & Turbines		
Internal Combustion		
Engines		Ammonia, Benzene, EDB, EDC, Gasoline vapors, Hydrazine, TCA
Farm Machinery & Equip		Toluene
Turbines & Turbine		
Generator Sets		Ammonia, Formaldehyde, Hydrogen chloride, Maleic anhydride, Perc, Phenol, Styrene, Toluene, Toluene diisocyanate, TCA, Xylenes
General Industrial		Ammonia, Chromium, Copper, Cresol, Epi- chlorohydrin, Formaldehyde, Hydrogen chloride, Lead, Nickel, Phenol, Toluene, TCA, TCE, Zinc oxide
Machinery		Copper, Naphthalene, Toluene, TCA
Bell & Roller		
Bearings		
Blowers & Fans		Copper, Gasoline vapors, Lead, Toluene, TCA, TCE
Comprsr, Air & Gas		Toluene
Industrial Furnaces		Arsenic, Copper, Hydrogen chloride, Lead, Toluene, TCE, Zinc
& Ovens		Formaldehyde, Phenol
Industrial Patterns		Ammonia, Copper, Hydrogen chloride
Power Transmission		
Equipment		Ammonia, Formaldehyde, Hydrogen chloride, Lead, Perc, Phenol, Toluene, TCA, Xylenes
Pumps & Pumping		Perc, Toluene, TCA
Equipment		
Speed Changers,		
Drives & Gears		Arsenic, Perc
Metalworking Machinery		
Machine Tool Acces-		Ammonia, Beryllium, Chromium, Hydrogen chloride, Toluene, TCA, TCE
sories		
Machine Tools, Metal		Ammonia, Lead, Toluene, TCE
Cutting Types		
Machine Tools, Metal		Ammonia, Benzene, Lead, Perc, Toluene, TCA, TCE
Forming Types		
Rolling Mill Ma-		Cadmium, Chromium, Zinc, Zinc oxide
chinery		
Special Dyes, Tools,		1,4-Dichlorobenzene, Formaldehyde, Hydrogen chloride, Methylene chloride, Naphthalene, Toluene, TCE, TCA, Zinc
Jigs, & Fixtures		
Office & Computing Ma-		
chines		CFC-113, Hydrogen chloride, Toluene, TCA
Miscellaneous		
Calculating &		Arsenic, Hydrogen chloride, TCA
Accounting Machines		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Machinery, Office & Computing, continued Electronic & Com- puting Equipment		Ammonia, Arsenic, Asbestos, Benzene, Benzidine, BaP, Bis(chloromethyl)ether, Chlorine, Chloroform, Chromium, Copper, Freon 113, Hydrogen chloride, Hydrogen sulfide, Lead, Methylene chloride, Naphthalene, Nickel, Nitrobenzene, Perc, Phenol, Toluene, TCA, TCE, Vinyl chloride, Zinc
Also see - Electric & Electronic, Appendix C-II Typewriters		Ammonia, Benzene, Beryllium, Cadmium, Formaldehyde, Hydrogen chloride, Lead, Nickel, Toluene, Xylenes
Refrigerat'n & Svc Machin Automatic Merchandising Machines Commercial Laundry Equipment Measur & Dispens Pumps Refrig & Htg Equip		Toluene Arsenic, Perc, Toluene Toluene Ammonia, Copper, Formaldehyde, Freon 113, Hydrogen sulfide, Lead, Methylene chloride, Phthalic anhydride, Toluene, TCA, TCE, Xylenes, Zinc
Misc Svc Indus Mach Special Industry Machinery Food Prods Machinery Paper Indus Machin Printing Trades Mach		Toluene Ammonia, Arsenic, Benzene, Chromium, Copper, Lead, Methylene chloride, Perc, Toluene, TCA, TCE Arsenic Ammonia, Perc, Toluene, TCE Ammonia, Chromium, Lead, Methylene chloride, Toluene, Toluene diisocyanate, TCA, Zinc oxide
Textile Machinery Woodworking Machin		Toluene, TCE, Xylenes Chlorine, Hydrogen chloride, Toluene
Combustion Processes - see Combustion, Appendix C-I Metal Forming - see Machining Mfg and Metal Forming, Appendix C-II Surface Coating/Degreasing - see Solvent Use and Other Processes, Appendix C-I		
Machining - see Metal Forming, Metal Prod Fabrication, and Metal Smelting, Appendix C-II		
Magazine (Periodical) Publishing - see Printing & Publishing, Appendix C-II		
Mechanical Assembly Cleaning - see Solvent Use, Degreasing, Appendix C-I		
Metal Forming Aluminum Forming Machining Also see - Metal Product Fab and Metal Smelters, Appendix C-II		Chloroform, Methylene chloride, TCE TCA

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Metal Furniture Mfg - see Furniture Mfg, Appendix C-II		
Metal Plating	Particulate metals including but not limited to: From electrocleaning, and plating Gaseous and aerosol releases including but not limited to: Alkaline cleaning agents Acid cleaning, pickling agents Chelating agents, solvents Plating/other process bath compon. Plating tank, Electric arc furnace	Cadmium, Chromium (VI), Nickel, TCA
Electrocleaning Cleaning/Pickling Cleaning/Plating Storage/Handling		Sodium hydroxide Chromic acid, Hydrochloric acid Nitrilotriacetic acid, Thiourea Ammonia, Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Sodium hydroxide, Zinc
Combustion Processes - see Combustion, Appendix C-I Degreasing Processes - see Solvent Use, Appendix C-I Storage and Handling - see Liquid Storage & Transfer, Appendix C-I		
Metal Product Fabrication		Acrylonitrile, Ammonia, 1,3-Butadiene, Cadmium, Chlorine, Copper, Formaldehyde, Freon 113, Hydrazine, Hydrogen chloride, Lead, Mercury, Methylene chloride, Perc, Styrene, Toluene, TCA, TCE, Zinc
Metal Cans & Shipping Containers Metal Cans		Benzene, Lead, Perc, Toluene, TCA, TCE, Xylenes
Metal Barrels, Drums & Pails		Ammonia, Naphthalene, Toluene, TCA
Metal Cutlery, Handtools & Hardware Cutlery Hand & Edge Tools		Chromium, Lead, Toluene, TCE Ammonia, Chlorine, Chromium, Hydrogen chloride, Methylene chloride, Styrene, Toluene, TCA, TCE, Zinc
Hand Saws & Saw Blades Misc Hardware		Copper, Lead, Nickel, Toluene, TCE, Zinc Ammonia, Chlorine, Chromium, Copper, Hydro- gen chloride, Hydrogen sulfide, Lead, Methylene chloride, Naphthalene, Perc, Phenol, Toluene, TCA, TCE, Zinc, Zinc oxide Ammonia, Copper, Hydrogen chloride, Lead, Perc, Zinc, Zinc oxide
Metal Foil & Leaf		
Metal Forgings & Stampings Iron & Steel Forgings Auto Stampings Crowns & Closures Misc Metal Stampings		Hydrogen sulfide Ammonia, Perc, Toluene Lead Copper, Perc, Toluene, TCA, TCE

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Metal Prod Fabric continued Misc Metal Services Plating & Polishing		Toluene Acrolein, Ammonia, Arsenic, Benzene, Cadmium, Chloride, Chlorine, Chloroform, Chromium, Copper, Formaldehyde, Hydrogen chloride, Lead, Methylene chloride, Nickel, Nitrobenzene, Perc, Toluene, TCA, TCE, Zinc, Zinc oxide
Metal Coating & Allied Services		Acetaldehyde, Arsenic, Benzene, Cadmium, Chlorine, Chromium, Copper, Formaldehyde, Hydrogen chloride, Lead, Methylene chloride, Nickel, Perc, Toluene, TCA, TCE, Xylenes, Zinc, Zinc oxide
Ordnance & Accessories Small Arms Ammunition Ammun, exc small arms Small Arms		Lead Hydrogen sulfide, Toluene, TCE Ammonia, Arsenic, Formaldehyde, Freon 113, Hydrogen chloride, Lead, Phenol, Toluene, Zinc oxide
Plumbing & Heating, except electric Metal Sanitary Ware Plumbing Fittings & Brass Goods		Methylene chloride, Toluene
Heating Equipment, except electric		Ammonia, Cadmium, Formaldehyde, Hydrogen chloride, Phenol, Toluene, TCE, Zinc oxide
Screw Machine Products, Bolts, etc. Screw Machine Prod Bolts, Nuts, Rivets, & Washers		Ammonia, Benzene, Chromium, Formaldehyde, Perc, Phenol, Toluene
Steel Springs, exc wire Structural Metal Product Fabrication Structural Metal Fabrication Metal Doors, Sash, & Trim		TCA, TCE Cadmium, Hydrogen chloride, Methylene chloride, TCA, TCE, Zinc Hydrogen chloride, Toluene, TCA
Fabricated Plate Work, boiler shops		Toluene Copper, Toluene, Xylenes, Zinc oxide
Sheet Metal Work		Ammonia, Cadmium, Formaldehyde, Perc, Toluene, TCA, Xylenes, Zinc
Architectural Metal Work		Copper, Gasoline vapors, Hydrogen chloride, Lead, Perc, Styrene, Toluene, TCA, TCE Ammonia, Perc, Toluene, Toluene diisocyanate, TCA, TCE Ammonia, Copper, Perc, Toluene, TCA, TCE

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Metal Prod Fabric, Structural Metal, continued Prefabric Metal Bldgs Misc Metal Work Valves & Pipefittings Wire Product Fabrication		Toluene, Xylenes Ammonia, Benzene, Toluene Copper, Phenol, Toluene, TCA, TCE, Zinc Ammonia, Hydrogen chloride, Nickel, Perc, Toluene, TCA, Vinyl chloride
Combustion Processes - see Combustion, Appendix C-I Degreasing - see Solvent Use, Appendix C-I Forming - see Metal Forming and Metal Smelters, Appendix C-II Surface Coating - see Solvent Use, Appendix C-I		
Metal Smelters & Foundries - (for non-metals mining see Mining, Appendix C-II)		
For any type of metal smelter - see Combustion and Liquid Storage & Transfer, Appendix C-I		
For any type of metal smelter		Hydrogen sulfide, All listed metals
Primary Aluminum Pro Furnace Tapping Coke Quenching Furnace Charging Metal Forming	Gaseous, aerosol, particulate releases including but not limited to: From the calciner, furnace, mat'l crusher/mill, storage & handling, service road, prebake/reduction/ soderberg stud cell Anode bake furnace	Benzene, Chloroform, Cresols, Fluorides, Methylene chloride, POM, PAHs*, TCE
Secondary Aluminum Furnace Tapping Furnace Charging Metal Casting Metal Forming	Gaseous, aerosol, particulate releases including but not limited to: From the furnace, and the service road	Benzene, Cresols, POM, PAHs*
Beryllium Alloys Molding	Gaseous, aerosol, particulate releases including but not limited to:	Nickel
Primary Cadmium Pro Material Prep Metal Casting Mining Operations	Gaseous, aerosol particulate releases including but not limited to: From the furnace, condenser, material storage and handling	Chloroform, Methylene chloride, TCE
Cadmium-Nickel Battery Material Prep	Gaseous, aerosol, particulate releases including but not limited to: From the sintering machine, and material storage and handling	Beryllium
Chromite Ore Refining	Gaseous, aerosol, particulate releases including but not limited to: From dryer, mill, cyclone, storage	Cadmium
Metallurgical Coke Coke Oven Charging/ Pushing From the coke oven, vessels, matr'l Material Prep Coke Quenching	Gaseous, aerosol particulate releases including but not limited to: storage and handling, and outdoor storage pile	Cadmium, Lead, Nickel
Coke Production		Chromium
		Acetaldehyde, Benzene, Cresols, Formaldehyde, Phenol, Toluene, Xylenes Ammonia, Arsenic, Beryllium, Cadmium, Hydrogen sulfide, Lead, Manganese, Mercury, Nickel, POM, PAHs* POM, PAHs*, Toluene

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Metal Smelters & Foundries continued		
Primary Copper Smelt	Gaseous, aerosol, particulate releases	
Converter Charging	including but not limited to:	Arsenic, Cadmium, Copper, Lead, Mercury,
Furnace Tapping	From the converter, furnace, roaster	POM, PAHs*, Selenium, Zinc
Furnace Charging	vessel, material storage and	
Material Prep	handling, outdoor storage pile,	
Metal Casting	service road	
Slag Dumping		
Mining Operations		Arsenic, Mercury, Cadmium, Copper
Copper Forming		Perchloroethylene
Secondary Copper Oper	Gaseous, aerosol, particulate releases	
(Brass and Bronze Pro)	including but not limited to:	Cadmium, Copper, Lead, Manganese,
Furnace Tapping	From the furnace, and service road	Mercury, POM, PAHs*, Selenium, Zinc
Furnace Charging		
Metal Casting		
Electrometallurgical		
Products		Arsenic, Cadmium, Chromium, Copper,
		Manganese, Nickel
Ferroalloy Production	Gaseous, aerosol, particulate releases	
Furnace Tapping	including but not limited to:	Cadmium, Chromium, Copper, Lead,
Furnace Charging	From material storage & handling,	Manganese, Nickel, POM, PAHs*, Zinc
Material Prep	storage pile, furnace, decarbur-	
Metal Casting	izing vessels	
Mining, except V		
Slag Dumping		Nickel
Iron & Steel Foundries		
Iron and Steel Pro	Gaseous, aerosol, particulate releases	
Coke Oven Charging/	including but not limited to:	Ammonia, Arsenic, Benzene, Beryllium, Cad-
Pushing	From the coke oven, cupola, furnace,	mium, Chlorine, Chromium, Coke oven emis,
Furnace Tapping	sintering machine, storage	Copper, Formaldehyde, Hydrogen chloride,
Furnace Charging	& handling, storage pile,	Hydrogen sulfide, Lead, Manganese,
Material Preparation	service road	Mercury, Naphthalene, Nickel, POM, PAHs*,
Coke Quenching		Phenol, Toluene, TCE, Xylenes, Zinc
Slag Dumping		
Mining Operations		
Drying		
Crushing		
Sizing		
Weighing		
Feeding Furnace		
Also see Combustion (Blast Furnace), Appendix C-I		
Gray Iron Foundries	Gaseous, aerosol, partic releases	
Furnace Tapping	including but not limited to:	Acetaldehyde, Acrolein, Ammonia, Arsenic,
Furnace Charging	From the furnace, foundry mold &	Benzene, Beryllium, Cadmium, Chromium,
Converter Charging	core decomposition, & service road	Copper, Formaldehyde, Hydrogen sulfide,
Metal Casting		Iron, Lead, Manganese, Mercury,
Cupola		Naphthalene, Nickel, Phenol, POM, PAHs*,
		Styrene, Toluene, TCA, Xylenes, Zinc
Malleable Iron Foundries		Ammonia, Formaldehyde, Zinc
Steel Investment Fndrs		Cadmium, Chromium

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Metal Smelters & Foundries continued		
Steel Foundries		
Converter Charging	Gaseous, aerosol, partic releases	Arsenic, Beryllium, Cadmium, Chromium,
Furnace Tapping	including but not limited to:	Manganese, Nickel, Zinc
Furnace Charging	From furnace, foundry mold & core	
Metal Casting	decomposition, and service	
Basic Oxygen Proc	road	
	From argon oxygen decarburization	
	vessels, coke ovens	
Miscellaneous		Ammonia, Arsenic, Cadmium, Chromium,
		Copper, Hydrogen chloride, Lead,
		Naphthalene, Nickel, Perc, Phenol,
		Styrene, Toluene, TCA, Xylenes, Zinc
		Methylene chloride, Toluene
		Ammonia, Perc
		Ammonia, Chlorine, Hydrogen chloride,
		Lead, PCB, Toluene, Zinc
Cold Finish Steel Shapes		
Steel Pipe & Tubes		
Steel Wire & Related		
Products		
Primary Lead Smelting	Gaseous, aerosol, partic releases	Arsenic, Cadmium, Copper, Lead,
Furnace Tapping	including but not limited to:	POM, PAHs*, Mercury, Selenium
Furnace Charging	From the furnace, sintering machine,	
Material Prep	material storage and handling,	
Metal Casting	outdoor storage pile, and service	
Slag Dumping	road	
Mining Operations		
Secondary Lead Smelt	Gaseous, aerosol, partic releases	
Furnace Tapping	including but not limited to:	Arsenic, Lead, Manganese, POM, PAHs*,
Furnace Charging	From the furnace, service road, and	Selenium
Metal Casting	outdoor storage pile	
Lead Acid Battery Pro	Gaseous, aerosol, partic releases	
Material Prep	including but not limited to:	Arsenic, Cadmium, Lead, Manganese
Metal Casting		Mercury
Screening		
Storage & Handling		
Miscellaneous Lead Pro	Gaseous, aerosol, partic releases	
Converter Charging	including but not limited to:	Arsenic, Cadmium, Lead
Material Preparation		
Metal Casting		
Manganese Production	Gaseous, aerosol, partic releases	
Furnace Charging	including but not limited to:	Manganese, POM, PAHs*
Furnace Tapping	From the furnace, mat'l storage &	
Material Crusher/	handling, storage pile, slips,	
Mill	casthouse, sinter discharge,	
Metal Casting	windbox & discharge	
Slagging		
Synthetic Mang Pro		
Roasting		
Drying		
Grinding		
Packaging/Handling		
Melting		
Refining		
Hot Metal Transfr		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Metal Smelters & Foundries continued		
Dry Battery Production	Particulate substance releases	
Material Prep	including but not limited to:	
Screening	From the material crusher/mill and	Manganese, Mercury
Storage & Handling	material storage	
Also see Electrical & Electronic Equipment, Appendix C-II		
Mercury Production	Particulate releases	Mercury
Mining	including but not limited to:	
Prim. Ore Process	From smelter, hoeing, retort	
Secondary Prod		
Nickel Production	Gaseous, aerosol, partic releases	
Metal Casting	including but not limited to:	Arsenic, Cadmium, Lead, Nickel,
Mining Operations	From the calciner, furnace, material	POM, PAHs*, Selenium, Zinc
Refining	crusher/mill, roaster, material	
Melting/Roasting	storage & handling, rotary dryers,	
Crushing	storage pile, day bin, skip hoists	
Drying		
Nonferrous Metal Prod	Gaseous, aerosol, partic releases	
Super Alloys	including but not limited to:	Nickel
Permanent Magnet		
Alloys		
Electrical Alloys		
Secondary Processing	Gaseous, aerosol, partic releases	
of Nickel Scrap	including but not limited to:	Nickel
Radium, Uranium, &	Gaseous, aerosol, partic releases	
Vanadium Mining	including but not limited to:	Ammonia, Gasoline vapors, Hydrogen Sulfide, Radionuclides
Steel Foundries - see Metal Smelters, Iron & Steel, Appendix C-II		
Uranium Prod - see Metal Smelters, Radium, Appendix C-II		
Vanadium Prod - see Metal Smelters, Radium, Appendix C-II		
Primary Zinc Smelting	Gaseous, aerosol, partic releases	
Material Prep	including but not limited to:	Arsenic, Cadmium, Copper, Mercury,
Slag Dumping	From the condenser, furnace, roaster,	POM, PAHs*, Selenium, Zinc
Mining Operations	retort, material storage and	
	handling, outdoor storage pile,	
	and service road	
Secondary Zinc Process	Gaseous, aerosol, partic releases	
Furnace Tapping	including but not limited to:	Cadmium, Mercury, Nickel, Selenium, Zinc
Furnace Charging	From the furnace, condenser, retort	
Metal Casting	service road, and galvanizing vessel	

Industry/
Emitting Process

Type(s) of Emissions/
Emitting Process Points

Some Specific Substances
(Including, but not limited to)

Military Bases

Chemical Prod - see Chemical Mfg, Military Chem Mfg, Appendix C-II
Combustion Process - see Combustion, Appendix C-I
Degreasing - see Solvent Use, Appendix C-I
Research - see Research & Development, Appendix C-II
Surface Coating - see Solvent Use and Other Processes, Appendix C-I
Vehicle Refueling - see Other Processes, Appendix C-I

Millworks - see Wood Product Mfg, Appendix C-II

Mining of Non-Metals (for Metals Mining see Metal Smelters, Appendix C-II)

Arsenic Mining
Anthracite Mining
Asbestos
Clay

Coal (Bituminous) &
Lignite
Limestone
Minerals, Nonmetallic

Phosphate Rock
Sand & Gravel
Construction
Industrial

Sulfur

Gaseous and particulate releases
including but not limited to:
From: polymer and solvent storage
dope preparation (blending),
filtration, spin cell, lubrication,
drawing, finish application, and
drying

Combustion Processes - see Combustion, Appendix C-I
Storage - see Liquid Storage & Transfer, Appendix C-I
Surface Coating - see Solvent Use and Other Processes, Appendix C-I

Motor Vehicle Production - see Transportation Equipment, Appendix C-II

Motorcycle Mfg - see Transportation Equipment, Appendix C-II

Musical Instrument Mfg

Also see - Combustion, Other Processes, and Solvent Use, Appendix C-I
Wood Product Mfg, Appendix C-II

Arsenic
Arsenic, POM, PAHs*, Toluene diisocyanate
Asbestos, Silica
Arsenic, Beryllium, Lead, Toluene
diisocyanate
Arsenic, Hydrogen sulfide, Toluene
diisocyanate
Nickel
Arsenic, Asbestos, Beryllium, Cadmium,
Chromium, Lead, Toluene diisocyanate
Radionuclides
Asbestos, Crystalline silica
Vinyl Chloride
Arsenic, Beryllium, Lead, Phenol,
Toluene diisocyanate
Arsenic, Hydrogen sulfide

Polymer constituents - Acrylonitrile,
Propylene, Vinyl chloride

Solvents/precipitants - Sodium hydroxide,
Toluene, Zinc chloride
Flame retardants - Vinyl bromide
Promoters/activators - Hydrazine
Lubricants - Ammonium salts

Lead, Toluene, TCE

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
National Defense		Carbon tetrachloride, CFC 113, Chromium, Dioxin, Hydrazine, Mercury, Methylene chloride, Perc, Phenol, PCBs, TCA, Xylenes
Also see Military Bases, Appendix C-II		
National Security		Ammonia, Benzene, Beryllium, Cadmium, Chlorinated phenols, Chromium, ETO, Formaldehyde, Gasoline vapors, Hydrogen chloride, Hydrogen sulfide, Lead, Manganese, Methylene chloride, Nickel, Perc, Phenol, POM, PAHs*, Radionuclides, TCA, TCE, Xylenes
Natural Gas Combustion - see Combustion, Appendix C-I		
Needle, Pin, & Fastener Mfg		Formaldehyde, Hydrogen chloride, Lead, Toluene, TCE, Zinc
Also see Metal Prod Fabrication, Appendix C-II		
Newspaper Publishing - see Printing & Publishing, Appendix C-II		
Nickel Plating - see Metal Plating, Appendix C-II		
Office Machine Mfg - see Machinery Mfg, Appendix C-II		
Office Supplies Mfg Carbon Paper & Inked Ribbons Lead Pencils & Art Goods Marking Devices Pens & Mech Pencils		Toluene Copper, Formaldehyde, Toluene Lead, Toluene, TCE, Zinc Chlorine, Methylene chloride, Perc, Toluene, TCE
Ink/Dye Mfg - see Chemical Mfg, Appendix C-II		
Oil Combustion - see Combustion, Appendix C-I		
Oil and Gas Extraction		Benzene, Phenols, POM, PAHs*, Sulfur compounds, Toluene, Xylenes Hydrogen sulfide Benzene, Carbon tetrachloride, Chlorobenzene, 1,4-Dichlorobenzene, EDC, Hydrogen sulfide, Toluene, TCA, Xylenes
Drilling Wells Exploration		
Extraction Natural Gas & Crude Petroleum Nat'l Gas Liquids Field Services Gas Stripping Fugitive Losses	Gaseous and aerosol releases From field separator	Ammonia, Formaldehyde, Gasoline vapors, Hydrogen sulfide Ammonia, Hydrogen sulfide Hydrogen sulfide, Gasoline vapors EDC

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Oil Production Fugitive Losses	Gaseous and aerosol releases from: sumps, wells, well heads, well cellars, pumps, fittings, oil pits, compressors, oil/ water separators,	
Tertiary Oil Production	Gaseous and aerosol releases from: steam drive wells, cyclic wells, pseudo cyclic wells	
Heavy Oil Test Stations	Gaseous and aerosol releases From test stations	
Combustion Processes - see Combustion, Appendix C-I		
Oil Storage - see Liquid Storage and Transfer, Appendix C-I		
Other Processes - see Other Processes & Fugitives, Appendix C-I		
Solvent Use - see Solvent Use, Appendix C-I		
Storage & Handling - see Liquid Storage & Transfer, Appendix C-I		
Organic Chemical Mfg - see Chemical Mfg, Appendix C-II		
Paint & Allied Products Mfg - see Chemical Mfg, Appendix C-II		
Paper & Paper Prod. Mfg/Treating - see Wood, Appendix C-II		
Pens & Pencils - see Office Supplies, Appendix C-II		
Petroleum Bulk Stations & Terminals		Benzene, Benzyl chloride, Carbon Tetrachloride Chlorine, EDB, EDC, Formaldehyde, Gasoline vapors, Hydrogen chloride, Hydrogen sulfide, Methyl methacrylate, Styrene, Toluene, Xylenes
Also see - Bulk Plants & Terminals, Appendix C-II		
Petroleum & Coal Products Miscellaneous Asphalt Felts & Ctgs		Chromium, Gasoline vapors, Naphthalene Asbestos, Carbon tetrachloride, Chromium, Formaldehyde, POM, PAHs*
Lubricating Oils & Greases		Asbestos, Benzene, Epichlorohydrin, Formaldehyde, Hydrogen sulfide, Toluene, TCA, TCE, Xylenes
Paving & Roofing Mat'ls Paving Mixtures & Blocks		Ammonia, Asbestos, Benzene, BaP & other PAHs*, Chloroform, Chromium, Formaldehyde, Mercury, Methyl isocyanate, POM, Toluene, TCA
Petroleum Refineries (1)Most Refinery Operations	Gaseous, aerosol, partic releases including but not limited to: From: boiler, cat cracker, flare, incinerator, process heater	Acetaldehyde, Ammonia, Arsenic, Benzene, BaP & other PAHs*, Beryllium, Cadmium, Carbon disulfide, Chlorine, Chromium, Cresol, Dimethyl sulfate, EDB, EDC, Formal- dehyde, Gasoline vapors, Hydrogen chloride, Hydrogen sulfide, Lead, Maleic anhydride, Mercury, Naphthalene, Nickel, Phenol, POM, Toluene, Xylenes, Zinc, Zinc oxide

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Petroleum & Coal continued (2)Crude Separation Gas Product'n	In addition to item (1) absorber, distillation/fractionation	In addition to item (1)-Ammonia, Chlorides, Cresols, EDC, Maleic anhydride, Michler's Ketone, Phenols, POM, PAHs*, Sulfur Cmpds, Zinc
(3)Light Hydrocarbon Processing	In addition to item (1): catalyst regeneration	In addition to item (1)-Nickel Carbonyl
(4)Middle and Heavy Distillate Process	In addition to items (1) and (2): evaporation, stripper	In addition to item (1)-Acetaldehyde, Ammonia, Copper, Cresols, Formaldehyde, Maleic anhydride, Michler's ketone, Nickel, Phenols, POM, PAHs*, Sulfur Compounds, Xylenes, Zinc, Any other listed Aromatic amine
(5)Residual Hydrocarbon Processing	In addition to items (1) and (2): visbreaker furnace, process vent,	In addition to item (1)-Acetaldehyde, Ammonia, Chromates, Cresol, Formaldehyde, Lead, stripper Maleic anhydride, Michler's Ketone, Lead, Nickel, Nickel carbonyl, Phenols, POM, PAHs*, Sulfur Cmpds, Zinc, Any other listed Aromatic amine
Also see Combustion, Liquid Storage & Transfer, and Other Processes, Appendix C-I Chemical Mfg, and Oil & Gas Extraction, Appendix C-II		
Pharmaceutical Industries - see Chemical Mfg, Drugs, Appendix C-II		
Photocopying & Blueprinting		Ammonia
Photographic Chemicals Mfg - see Chemical Mfg, Appendix C-II		
Photographic Studios		Ammonia
Photofinishing Labs		Methylene chloride, TCA
Pipelines - see Other Processes and Liquid Storage & Transfer, Appendix C-I		
Plastic & Synthetics Mfg - see Chemical Manufacturing, Appendix C-II		
Plastic Products Mfg Plastics Forming		TCA
Printing & Publishing Miscellaneous Blankbooks & Bookbinding Blankbooks & Loose- leaf Binders Bookbinding etc		Toluene
Books Printing Publishing		Ammonia, Toluene, TCA, TCE Toluene Lead, TCA Arsenic, Lead

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Printing & Publishing continued		
Newspapers		TCE
Printing (Commercial)		Toluene, TCA
Engraving & Plate		Benzene
Gravure		Ammonia, Benzene, Cadmium, Formaldehyde, Gasoline vapors, Methylene chloride, Nickel, Perc, Toluene, TCA, TCE, Xylenes
Letterpress		Ammonia, Benzene, Chromium, Methylene chloride, Naphthalene, Perc, Toluene, TCE
Lithographic		Ammonia, Benzene, Toluene, TCE
Printing Trade Svcs		
Typesetting		Ammonia
Electrotyping & Stereotyping		Lead
Publishing (Misc)		Toluene
Combustion Processes - see Combustion, Appendix C-I		
Ink Mfg - see Chemical Mfg, Appendix C-II		
Printing - see Solvent Use, Appendix C-I		
Surface Coating - see Solvent Use, Appendix C-I		
Process Gas Combustion - see Combustion, Appendix C-I		
Publicly Owned Treatment Works (POTWs)	Miscellaneous	Acrylonitrile, Benzene, Carbon tetrachloride, CFC-113, Chlorine, Chlorobenzene, Chloroform, EDC, Fluorocarbons, Hydrogen sulfide, Methylene chloride, Perc, Toluene, TCA, TCE, Vinyl chloride, Vinylidene chloride, Xylenes
	Gaseous products including but not limited to: From raw sewage offgases	
Combustion	From exhaust gases of digester gas burning engines modified to lower NOx emissions	Carbon tetrachloride, Chlorobenzene, p-Dichlorobenzene, EDC Acrolein, 1,3-Butadiene
Sludge Composting	From sawdust used as bulking agent (sawdust from lumber obtained at structural demolition projects)	Ammonia, Dimethylamine Asbestos
Sludge Dewatering (using an aminomethyl- ated polyacrylamide having a dimethylamine group in the polymer)		Dimethylamine
Sludge Treatment		Chloroform
Aeration Tanks - see Liquid Storage & Transfer, Appendix C-I		
Chlorinator Discharge		
Digesters		
Headworks		
Sludge Incinerators - see Combustion, Appendix C-I		
Water Treatment - see Other Processes, Appendix C-I		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Pulp Mills - see Wood Product Mfg, Appendix C-II		
Quarries	Particulate-phase substances including but not limited to:	Asbestos, Arsenic, Silica
Railroad Equip Mfg - see Transportation Equip, Appendix C-II		
Refractory Production		Chromium
Research & Devel. Labs		Ammonia, Cadmium, Chloride, Chromium, Copper, Formaldehyde, Hydrogen chloride, Hydrogen sulfide, Lead, Manganese, Mercury, Methylene chloride, Nickel, Perc, Phosgene, Phthalic anhydride, Styrene, Toluene, TCA, TCE, Zinc, Zinc oxide Epichlorohydrin, Hydrogen sulfide
Commercial Testing Labs		
Chemical Mfg - see Chemical Mfg, Appendix C-II		
Combustion Processes - see Combustion, Appendix C-I		
Other Processes - see Other Processes, Appendix C-I		
Solvents - see Solvent Use, Appendix C-I		
Storage and Handling - see Liquid Storage & Transfer, Appendix C-I		
Roadway Surfacing		Asbestos, Benzene
Rubber Mfg - see Chemical Mfg, Appendix C-II		
Rubber & Misc Plastics Prod Fabricated Rubber Prod		Ammonia, Benzene, Chlorine, ETO, Formaldehyde, Hydrogen chloride, Lead, Methylene chloride, Naphthalene, Perc, Styrene, Toluene, Toluene diisocyanate, TCA, Vinyl chloride, Zinc, Zinc oxide Acetaldehyde, Acrylonitrile, Ammonia, Benzene, Benzyl chloride, Beryllium, Chlorine, EDC, ETO, Formaldehyde, Freon 113, Gasoline vapors, Hydrogen chloride, Hydrogen sulfide, Lead, Mercury, Methyl methacrylate, Methylene chloride, Naphthalene, Phenol, Phthalic anhydride, Styrene, Toluene, Toluene diisocyanate, TCA, TCE, Vinyl chloride, Zinc oxide Benzene, Cadmium, Lead, Naphthalene, Toluene Naphthalene, Toluene, TCA Perc, Toluene Ammonia, Benzene, Methylene chloride, Styrene, Toluene, TCA, Zinc oxide
Plastics Prod, Misc		
Reclaimed Rubber		
Rubber & Plastic Footwear		
Rubber & Plastic Hose/Belting		
Tires & Inner Tubes		
Rubber Mfg - see Chemical Mfg, Appendix C-II		
Surface Coating - see Solvent Use, Appendix C-I		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Rubber Cement Application/Manufacture Application - see Solvent Use, Appendix C-I Manufacture - see Solvent Use, Appendix C-I and Chemical Mfg, Appendix C-II		
Saw Mills - see Wood Product Mfg, Appendix C-II		
Semiconductor Mfg - see Electronic Equipment Mfg, Integrated Circuits, Appendix C-II		
Sewage Plants - see Combustion (Incineration), Appendix C-I		
Shingle & Siding Mfg Also see Plastics, Appendix C-II		Asbestos
Sign & Advert. Display Mfg		Ammonia, Beryllium, Hydrogen chloride, Naphthalene, Perc, Toluene, TCA, TCE, Zinc
Smelters - see Metal Smelters, Appendix C-II		
Solvent Recycling Also see - Solvent Use, Appendix C-I		Benzene, Chlorinated organics
Space Research & Technology Combustion Processes - see Combustion, Appendix C-I Degreasing - see Solvent Use, Appendix C-I Research - see Research & Development, Appendix C-II Surface Coating - see Solvent Use and Other Processes, Appendix C-I Vehicle Refueling - see Other Processes, Appendix C-I		
Sporting & Athletic Goods Mfg Also see Combustion, Solvent Use, and Surface Coating, Appendix C-I Chemical Mfg, Metal Product Mfg, Rubber Product Mfg, and Textiles Mfg, Appendix C-II		Methylene chloride, TCA
Stone Products Mfg - see Clay, Glass & Stone Products, Appendix C-II		
Surface Coating Application/Manufacture Application - see Solvent Use and Surface Coating, Appendix C-I Manufacture - see Chemical Mfg, Appendix C-II		
Surgical & Med Supp Mfg Combustion Processes - see Combustion, Appendix C-I Degreasing - see Solvent Use, Appendix C-I Instruments - see Instrument Mfg, Appendix C-II Other Processes - see Other Processes, Appendix C-I Pharmaceuticals Mfg - see Chemical Mfg, Appendix C-II Sterilization - see Sterilizers, Appendix C-I Surface Coating - see Solvent Use, Appendix C-I		
TSDFs - see Transfer, Storage, & Disposal Facilities, Appendix C-II		

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Textile Mill Product'n Mfg. Miscellaneous		Asbestos, Benzene, Benzidine, Bis(chloromethyl) ether, 1,4-Dichlorobenzene, Dichloroethane, Dioxane, Ethyleneimine, Formaldehyde, Hydrazine, Methyl Bromide, Perc, Phenol, TCE
Apparel/Other Textile Prod		Ammonia, Arsenic, Chlorine, EDC, Toluene, TCA
Fur Goods		Ammonia, Perc
Apparel Belts		Ammonia, Cadmium, Copper, Toluene, Zinc
House Furnishings		Toluene
Auto/Apparel Trimmings		Napthalene, Toluene
Floor Covering Mills		Ammonia, Arsenic, Benzene, Toluene, Vinyl chloride
Miscellaneous		
Woven Carpets & Rugs		Arsenic
Tufted Carpets & Rugs		Arsenic
Knitting Mills		Benzene, Formaldehyde
Hosiery		Benzene, Benzidine
Knit Outerwear Mills		Acrylonitrile, Benzene
Narrow Fabric Mills		Ammonia, Arsenic, Benzene, Perc
Nonwoven Industry		Benzene, 1,4-Dioxane, Mineral fibers
Textile Finishing		Bis(chloromethyl) ether
Miscellaneous		
Finish Plants		Acrylonitrile, Benzene, Benzidine, 1,3-Butadiene, Formaldehyde, Hydrazine, Perc, Toluene, Vinyl chloride, Vinylidene chloride, Xylenes
Cotton		
Synthetic		Acrylonitrile, Benzene, Chromium, 1,4-Dichlorobenzene, Toluene
Weaving Mills		Benzene, Copper, 1,4-Dioxane, Formaldehyde, Hydrazine, Perc, Xylenes
Cotton		
Synthetics		Acrylonitrile, Benzene, 1,4-Dioxane, EDC, Toluene
Wool		Acrylonitrile, Benzene, Chloroform, 1,4-Dioxane, EDC, Formaldehyde, Mineral fibers, Perc, Styrene, Toluene diisocyanate
Woven Fabric Finishing		Benzene, 1,4-Dioxane, Formaldehyde, Perc
Yarn & Thread Mills		1,4-Dichlorobenzene
Yarn Mills, not wool		
Throwing & Winding		Toluene diisocyanate
Wool Yarn Mills		Ammonia, Lead, Toluene diisocyanate
Misc Textile Goods		Arsenic
Coated Fabrics, not rubberized		
Cordage & Twine		Arsenic, Benzene, Cresol, Formaldehyde, Hydrogen chloride, Lead, Perc, Styrene, Toluene, Xylenes
		TCA

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Textile Mill Product'n Mfg (Misc) continued		
Felt goods		Arsenic, TCA
Paddings & Upholstery		
Filling		Benzene
Processes Textile		
Waste		Formaldehyde
Tire Cord & Fabric		Ammonia, Asbestos, Benzene, Formaldehyde, Perc
Cleaning - see Degreasing, Appendix C-I and Dry Cleaning, Appendix C-II		
Combustion Processes - see Combustion, Appendix C-I		
Dyeing - see Chemical Mfg and Dyeing of Textiles, Appendix C-II		
Surface Coating/Solvent Use - see Solvent Use, Appendix C-I		
Tobacco Mfg		
Cigarette Mfg		Benzene, Chloroform, Formaldehyde, Methylene chloride, Perc, Toluene
Tobacco Stemming & Redrying		Benzene
Toy & Sporting Good Mfg		
Dolls		Acrylonitrile, Toluene
Games, Toys, & Child- ren's Vehicles		
Sport & Athletic Goods		Styrene, Toluene
Combustion Processes - see Combustion, Appendix C-I		Perc, Styrene, Toluene
Degreasing/Surface Coating - see Solvent Use and Other Processes, Appendix C-I		
Labeling/Packaging - see Printing and Wood (Paper) Products, Appendix C-II		
Also see - Metal, Rubber, and Wood Products, Appendix C-II		
Train Mfg/Rpf - see Transportation Equipment, Appendix C-II		
Transfer, Storage, & Disposal Facil's (TSDFs)		
Combustion Processes - see Combustion, Appendix C-I		
Other Processes - see Other Processes, Appendix C-I		
Solvent Recycling - see Solvent Use, Appendix C-I		
Storage - see Liquid Storage & Transfer, Appendix C-I		
Transportation Equip Mfg/Rpr		
Auto Repair/Auto Body Repair		Hydrogen chloride, Methylene chloride, Perc, Toluene, TCE
Gen'l Auto Repair		
Tire Retreading & Rpr		Ammonia, Asbestos, Formaldehyde, Toluene, TCA
Paint Shops		Toluene
Top & Body Rpr Shops		Benzene, Naphthalene, Toluene, Xylenes
Motor Vehicles & Car Bodies		Zinc Oxide Naphthalene, Toluene Ammonia, Cadmium, Chromium, Formaldehyde, Hydrogen chloride, Lead, Methylene chloride, Phenol, Toluene

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Transportation Equip, Auto Mfg/Rpr, continued Motor Vehicle Parts & Accessories		Ammonia, Asbestos, Benzene, Cadmium, Chlorine, Chloroform, Chromium, Copper, Formaldehyde, Hydrogen chloride, Hydrogen sulfide, Lead, Manganese, Methylene chloride, Naphthalene, Perc, Toluene, Toluene diisocyanate, TCA, TCE, Zinc, Zinc oxide
Truck, Camper, Trailer, & Bus Bodies		Chromium, Methylene chloride, Nickel, Styrene, Toluene
Auto Parts Mfg Brake lining Mfg Aircraft & Parts		Asbestos Ammonia, Chromium, Hydrogen chloride, Hydrogen fluoride, Hydrogen sulfide, Lead, Methylene chloride, Nickel, Perc, Styrene, Toluene, TCA, TCE, Xylenes, Zinc, Zinc oxide
Guided Missiles, Space Vehicles, & Parts Guid Mis'ls Spc Vehs Spc Propulsion Units & Parts Spc Veh Equipment		Formaldehyde, Hydrazine, Perc, Toluene, TCE, Xylenes Hydrazine, TCE Ammonia, Hydrazine, Hydrogen chloride, Lead, Methylene chloride, Toluene
Motorcycles, Bicycles & Parts Railroad Equipment		Toluene Ammonia, Chromium, Hydrogen chloride, Methylene chloride, Nickel, Toluene, Toluene diisocyanate, TCA Asbestos, Hydrazine, Methylene chloride, Phenol, PCBs, Styrene, TCE
Ship & Boat Bld & Rpr		
Combustion Processes - see Combustion, Appendix C-I Degreasing - see Solvent Use, Appendix C-I Metal Forming - see Machining and Metal Smelters, Appendix C-II Military Transport - see Military, Appendix C-II Paint Preparation - see Chemical Mfg, Appendix C-II Research - see Research & Development, Appendix C-II Space Transport - see Space Research & Technology, Appendix C-II Storage & Handling - see Liquid Storage & Transfer, Appendix C-I Surface Coating/Touch-up - see Solvent Use and Other Processes, Appendix C-I Upholstery Mfg - see Textile Mill Prod Mfg, Appendix C-II		
Transportation Equip Sales Boat Dealers Used Car Dealers		Toluene Toluene

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Transportation Ports/Stations Airports & Flying Fields Inspection & Weighing Marine Cargo Handling		Benzene, Dioxins, POM, PAHs*, Radionuclides, Toluene EDC, Lead, Methylene chloride, Perc, Toluene, Toluene diisocyanate, TCA, TCE, Xylenes
Combustion Processes - see Combustion, Appendix C-I Degreasing/Paint Stripping - see Solvent Use, Appendix C-I Electroplating - see Metal Plating, Appendix C-II Refueling - see Other Processes, Appendix C-I		
Truck Mfg - see Transportation Equipment, Appendix C-II		
Universities - see Colleges, Appendix C-II		
Varnish Mfg - see Chemical Mfg, Appendix C-II		
Water Treatment - see Other Processes, Appendix C-I		
Wood Combustion - see Combustion, Appendix C-I		
Wood Preservation Cellon Process Chromated Copper Arsenate Process Dricon Process Diluent/Creosote Process Oil/Penta Process	Gaseous and aerosol releases from: wood preserving agents	Arsenic, Benzene, Chloroform, Chromium, Copper, Cresols, Dibenzofuran, Dioxins, Hydrogen chloride, Phenol, Naphthalene, Toluene, Zinc, Zinc Oxide
	vapor drying agents preserving carriers fire retardants	various solvents various solvents Formaldehyde, Zinc chloride
Combustion Processes - see Combustion, Appendix C-I		
Wood Chemicals Mfg - see Chemical Mfg, Appendix C-II		
Wood Products Mfg. Fiberboard Mfg. Lumber Millwork, Plywood, & Structural Members Millwork	Miscellaneous	Cresols, Formaldehyde, Dioxins, TCE Chloroform Cresols, Formaldehyde, Dioxins, TCE, Toluene
		Asbestos, Carbon tetrachloride, Chlorophenols, Formaldehyde, Methylene chloride, Toluene, Xylenes Methylene chloride, Naphthalene, Styrene, Toluene, TCA, Xylenes Formaldehyde, Perc
Wood Kitchen Cabinets		
Hardwood Veneer/Plywood		

Industry/
Emitting Process

Type(s) of Emissions/
Emitting Process Points

Some Specific Substances
(Including, but not limited to)

Wood Product Mfg continued
Paper & Allied Prod Mfg

Gaseous/aerosol/particulate releases
including but not limited to:

From: Sizing agents

Wet & dry-strength agents
Adhesives
Dyes & pigments

Binders

Pigment fillers/coatings

Humectants

Coatings

Oil-resistant additives

Machine operating aids

Retention aids

Biocides & slime cont'l

Deinking agents

Bleaching chemicals

From chemicals imported in waste
paper: ink pigments, coating
agents, binders, adhesives -

Bldg Paper & Board
Mills

Deink Fine & Tissue
Paper, Secondary
Fiber Mills
Paper Mills Misc

Paperboard Contain-
ers & Boxes Mfg
Corrug. & Solid
Fiber Box
Folding Box
Sanitary Food
Containers
Fiber Cans,
Drums, etc
Set-Up Box

Paperboard Mills
Converted Paper Prod
Die-Cut Paper &
Board
Paper Bags

Pressed & Molded
Pulp Goods
Miscellaneous

Acrylamide, Styrene
Epichlorohydrin, Formaldehyde
Acrylamide, Ammonia
Benzidine, Direct Black 38, Direct Blue 6
Lead, o-Tolidine

Styrene
Asbestos, Styrene, Zinc, Zinc Oxide
Formaldehyde
Ammonia, Sodium hydroxide
Fluorochemical chrome complex

Asbestos, Epichlorohydrin
Acrolein, TCA, Trichlorophenol
Sodium hydroxide
Ammonia, Chlorine, Chloroform, Chromic
sulfate, Methanol, Sodium hydroxide, Zinc

Chloroform, Phenol, Toluene

Ammonia, Asbestos

Chloroform
Arsenic, Cadmium, Chlorine, Chloroform,
Hydrogen sulfide, Toluene, TCE

Ammonia, TCE
Formaldehyde

Acetaldehyde, Ammonia, Toluene

Ammonia, Toluene
Toluene
Cadmium, Chloroform, Formaldehyde, Toluene

Toluene, TCE
Acetaldehyde, Ammonia, Formaldehyde,
Hydrogen chloride, Methylene chloride,
Naphthalene, Perc, Toluene, TCA

Zinc
Ammonia, Formaldehyde, Toluene

Industry/ Emitting Process -----	Type(s) of Emissions/ Emitting Process Points -----	Some Specific Substances (Including, but not limited to) -----
Wood Prod Mfg continued Pulp Mill Mfg Groundwood/Mechanical Pulp Mfg Chemical Pulp Mfg Dissolving Pulp Kraft or Sulfite Sulfite Papergrade Pulp Deink Fine & Tissue Paper Pressed & Molded Pulp Goods Miscellaneous Also see - Paperboard, Coarse Paper, Tissue Paper, Appendix C-II Plywood Mfg Presswood & Laminated Wood Products Mfg		Ammonia, Calcium, Carbon, Caustic soda, Sodium sulfate, Sulfur dioxide Chloroform Chloroform Chloroform Zinc Chlorine, Chloroform, Hydrogen sulfide Cresols, Dioxins Phenol-formaldehyde resins - Formaldehyde, Phenol Melamine-formaldehyde resins - Formaldehyde Dispersion agent (during glue formulation) - Sodium hydroxide Formaldehyde scavengers - Ammonia
Sawmills & Planing Mills Hardwood Dimension & Flooring Softwood Veneer Mfg Wood Containers Wood Furniture Mfg Wood Finishing		Acetaldehyde, Formaldehyde, Lead, POM, PAHs*, Toluene Toluene Cresols, Dioxins Toluene Chromium, Methylene chloride, TCA
Combustion Processes - see Combustion, Appendix C-I Surface Coating - see Solvent Use and Other Processes, Appendix C-I		
Wool Fabric Mills - see Textile Mfg		
All Other Industries	Gaseous releases from combustion, storage, handling, process vessels, etc Particulate and aerosol releases from combustion, storage, handling, process vessels, etc Process loss and fugitive releases anywhere along the process train	Feedstocks that are on list of substances or may contain listed substances as substances. Check all materials manufactured for components that on listed substances